THE AMERICAN RIFLEMAN

25 CENTS

Peter Peepsight Gets Sidetracked

PETER, MEET MY WIFE! I FINALLY GOT HER TO COME OVER AND TRY A FEW SHOTS WITH THE PISTOL!
HOWDY, MRS. SLIM! CAN I SUPPLY A FEW POINTERS?
OUTDOOR PISTOL RAN
THAT WOULD BE WONDERFUL, MR. PEEPSIGHT! MY HUSBAND SAYS YOU'RE AN EXPERT!
1ST DAY
STEADY NOW! KEEP THAT ARM STRAIGHT! THAT'S THE TICKET!
I HAVEN'T HAD SO MUCH FUN IN YEARS!
THAT IS EASY TO SEE!
2ND DAY
WOW!
HI, FELLAS! MEET THE MRS. SHE DECIDED TO COME DOWN AND JOIN MRS. SLIM.
THIS MUST BE MR. SLIM!
THE PLEASURE IS ALL MINE! MRS. MONEY-BAGS. MAY I GIVE THE FIRST LESSON?
ARR-OOO!
3RD DAY
JUST TO MAKE THE PARTY COMPLETE, BOYS, HERE'S MY WIFE. LOOKS LIKE WE'LL HAVE A TEAM OF PISTOL-PACKIN' MAMAS!
WELCOME TO MUDDY BOTTOM, MRS. PEEPSIGHT! THE PLACE IS RAPIDLY TAKING ON NEW CHARM!
NEVER KNEW PISTOL PRACTICE COULD BE SO INTERESTING!
A FEW WEEKS LATER
I BID ONE CLUB!
I'M GETTING SICK OF BRIDGE!
WHO LET 'EM IN HERE, ANYWAY?
I'M GOING TO GRAB MY BOX OF PETERS POLICE MATCH* 22S AND GO OUT AND PRACTICE IN A BACK LOT!
HAVE YOU EVER HAD SO MUCH FUN?
NEVER!
YOU'RE SHOOTING BEAUTIFULLY, DEAR!
YOUR HUSBAND IS A WONDERFUL TEACHER!

PETERS Rifle and Pistol Ammunition

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport, Conn.*

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DU PONT

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BAUSCH & LOMB

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DIVISION OF OLIN INDUSTRIES INC.

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Smith & Wesson *The Thoroughbred of the Handgun World*

SPRINGFIELD 2, MASSACHUSETTS

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COLT
COLT'S PATENT FIRE ARMS MFG. CO., HARTFORD, CONNECTICUT

An Editorial

Unpleasant Facts

IN several past issues we have indicated why we believe that a program of universal military training for all Americans is the only truly democratic approach to the problem of adequate defense and the building of a really democratic army. We have consistently supported those outstanding military and naval authorities who have advocated universal military training. Hence, we feel justified now in expressing the opinion that the Armed Services are, themselves, doing more to turn the American public against universal military training than was done by all the pacifist and other starry-eyed groups who so inadequately opposed democratic military responsibilities.

The trouble is caused in part by the inexplicable public relations policy of the Army. Things which could be, and should be, frankly mentioned and clearly explained to the Congress and the public are hidden in a fog of "restricted," "may not be quoted" red tape which irritates the Army's friends, and plays directly into the hands of the Army's critics and enemies. No nation in the world's history has ever before fought two major wars at the same time against two enemies on opposite sides of the world. No nation has ever before undertaken such enormous movements of men and supplies across two oceans to fight a first-class opponent firmly entrenched over much of another continent. No nation has ever waged war with an army that expected so much in the way of materiel, transport, entertainment. Under such conditions, much of the Army's apparent waste of troops can be honestly and easily explained. An alert, intelligent public relations policy would have begun giving redeployment facts to the public as soon as the defeat of Germany was assured. Instead, the critics of the Army were allowed to seize the ball and run with it. Once again, as continuously in the past, the Army's public relations position became one of stubborn silence or bumbling defense for a situation which, properly handled, would have reflected real credit on the Services. Publicity and "apple polishing" are not public relations. Red tape and confusion are not intelligent censorship.

The second condition created by the Regular Services which is now operating against the adoption of a universal military training program is the too-general feeling that the "trade-school" cliques (Annapolis and West Point) take care of their own interests at the expense of the civilian components who furnish most of the manpower. In the early stages of a war, the National Guard, Reserves, and newly commissioned officers from civilian life are ready to follow the lead of the Regulars and to take their chances on proving their ability as tacticians and administrators. But, as the war progresses, as inefficiencies become evident in many commands and in many jobs, there develops a growing resentment against the fact that the wearers of "the old school tie" are shifted from job to job but always keep their places on the active list while abler men "from outside" can find no place in the Tables of Organization for promotions or jobs of importance. The sudden interest in expanding the facilities at West Point and Annapolis, at a time when it seemed likely that a citizens' army might be provided through universal military training, was viewed in many quarters as an indication that "the military clique" was thinking, not of a truly democratic military structure in America but of a great military machine dominated by a professional military group trained in the disciplined cloisters of the gray stone piles on the Hudson and the Severn.

Whether these complaints and these fears are justified is not debatable in this space. Our effort here is only to point out very frankly two factors which are undoubtedly affecting the question, "Are we going to have universal military training in America?" They are factors which must be frankly faced and fairly solved or our national defense situation will be no better in 1950 than it was in 1920—C. B. L.

The

AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America

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IT'S AN OLD

When a buck-shirted Colonial stepped from behind a tree within two hundred yards, the man at whom he aimed was pretty sure to be a casualty!

IN THE AMERICAN REVOLUTIONARY WAR the Colonial army introduced into warfare a device so tellingly effective that it probably was instrumental in the final American victory —the gyroscopic bullet of the long rifled gun of the backwoodsman. Some American soldiers were equipped with the French Charleroi musket of the model of 1765, although there were by no means enough for all, while the British soldiers were equipped with a musket commonly called Brown Bess, both about of the length of our Civil War muskets. A shortage in these guns and the scant confidence the colonist placed in a musket led to the requirement that each new recruit provide his own weapon.

It was soon apparent that a very large number of the colonists, particularly those who lived in outlying regions, possessed a new and very effective weapon, a lightweight muzzle-loading rifle. The design had been originated by Lancaster, Pennsylvania, gunmakers, who found that they could not sell their extremely heavy-barreled rifled gun to a colonist who had to pack it on his back all day long as he farmed or did his chores. Therefore, they designed a lightweight gun which eventually became known as the Kentucky rifle, approximately five feet long, light in weight, and firing a spherical lead bullet about one-half inch in diameter.

A handbook published by a manufacturer of these rifles, and now in the possession of the writer, furnishes some extremely interesting and pertinent information. Two etchings reveal the accuracy with which these rifles could be used at 100 and 200 yards. In both cases the target is a man. At 200 yards all but two of twenty-four shots found their mark in the torso or upper arms or thighs. Thus, any one of the twenty-two shots would have killed or disabled an enemy.

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The average error of these twenty-two shots, and hence the probable error of the shots to the right or left of the vertical center line of the target's body, was 3½ inches. This error of 3½ inches is one-half of one-tenth of one per cent of the range of 200 yards, or 600 feet, an excellent illustration of the degree of accuracy that the rifle of the time had to attain in order to be useful to a colonist. To be worth the purchase price and to serve a backwoodsman, the rifle had to be sufficiently accurate to enable the owner at 200 yards to stop or kill an Indian, kill a bear or deer or turkey. Demonstrations at fairs and competitions on various occasions were sufficient to prove that the rifle would accomplish just that. So when the backwoods colonist enlisted in the Continental Army and brought with him this Lancaster rifle, he introduced into warfare the gyroscopic bullet, and an entirely new idea, accuracy of gunfire.

So inaccurate, on the other hand, were the British Brown Bess musket and the French Charleroi musket that to hit a man at 200 feet was a miraculous achievement. It was, therefore, not surprising that the men were commonly ordered to hold their fire until they could see the whites of the opponent's eyes. A record of rounds fired by British soldiers at the Battle of Waterloo in 1815 indicated in terms of French dead found on the field that they had fired 450 rounds to hit one Frenchman.

It soon became known through the British Army that when one of the buck-shirted Colonial soldiers stepped from behind a tree as far as 200 yards away and aimed his rifle, *he was looking at a man whom he certainly was going to kill or maim.* Because his error in 600 feet would probably be only 3½ inches to the right or left of the center of a man's body, he knew that he could aim at one man and *hit that man.*

The makers of the guns thus unwittingly set specifications for over-all performance; a probable error no greater than one-tenth of one per cent of the range. Since the guns demonstrated that this specification had been met, there was no need to accept anything less. It may be well to emphasize that this standard of performance became a possibility because a scientific device known as a gyroscope had been created in a handgun. The bullet fired from a rifle was rotating many thousands of times a minute (16,000 or more in present rifles and cannon). It thereby became a gyroscope, and its accurate performance was due to the fact that its spinning motion made it follow very accurately the path of its own axis. Thus gunpowder of 1200 had been joined by the gyroscope in 1775 and would be joined by steel in 1856 to make war terrible indeed.

It may seem very odd that having introduced that idea into warfare so early as 1775, we did not make muzzle-loading rifles our regulation weapons until the very end of the Civil War in 1865. Nevertheless, during all this time, America was becoming what we may term precision-minded. We had so much to do and so little time in which to do it that every device made and used and every effort expended on any task had of necessity to be as effective as possible. We needed always to hit the target and to hit it effectively. As a result, this precision-mindedness of America had become almost an obsession by the end of the last century, so that during the last war we found we were introducing the idea of production manufacturing and replaceability of parts to the maximum possible extent. It

AMERICAN CUSTOM

By HENRY W. MILLER

The deadly accuracy of modern war weapons—our heavy guns, our bombs, our undersea and aerial torpedoes—can be traced directly back to the 18th Century demands of American colonists for a precision weapon, a weapon that would hit the target at which it was aimed.

was anything but easy, but we traveled a long way on the road. Everything we did had to hit the target and hit it effectively. Whatever we made had to accomplish something definite, and it needed to be possible to prove that it would do so.

It is this fundamental insistence on accuracy in our American weapons that has always governed our armament programs. Right now it is unquestionably playing an important part in the thinking of our army experts as to the real effectiveness and usefulness of the so-called "robot bombs," whether of the jet or rocket type.

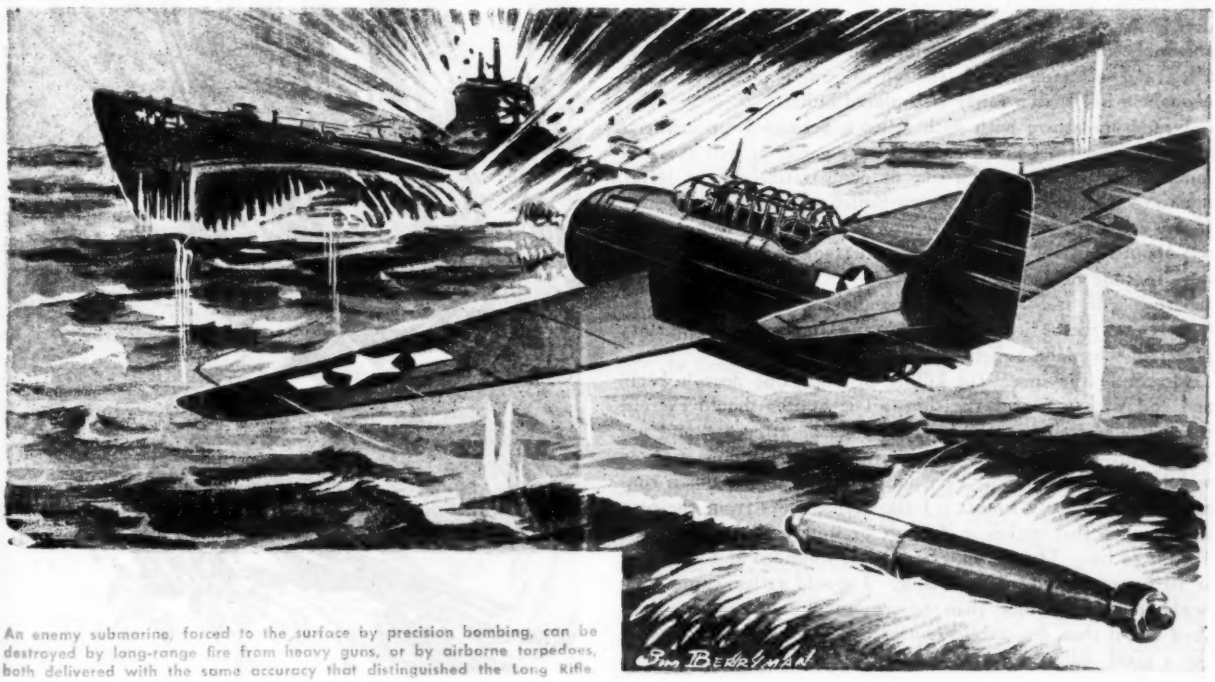
On the day Mr. Churchill reported to the House of Commons such details as he had available on the V-2 rocket, a well-known broadcaster used about five minutes of his fifteen to paint a very gloomy picture of the future in which a nation might completely overwhelm its enemies with this particular type of projectile. With nothing beyond Mr. Churchill's brief report, he told the public that this type of weapon would be so developed in accuracy of propulsion and in the dimensions of destructive power that future warfare would be transformed completely and that nations would be overwhelmed in a few hours after the launching of a superrocket attack.

More recently, newspapers have carried illustrations of the first V-1 propulsion tube, completed in record time by the Ford Company at its River Rouge Plant for the Air Corps. Then followed illustrations of such tubes in production manufacture; also metering devices to feed the gasoline to such tubes; and statements about the production manufacture, as well, of the robot-bomb wings, body, gyroscopic compass, robot pilot, and fuel tanks. And finally there appeared photographs of the finished V-1's, launched from ramps by rocket-powered undercarriages, with the bomb going on its way. These were tests apparently conducted in the desert region of southern California.

And then one final item: a statement attributed to Major General B. E. Meyers, of the Air Corps, to the effect that we are not interested in any device that can accomplish only indiscriminate destruction.

The fact is, regardless of the dramatic qualities of "freak" weapons, in order actually to defeat an enemy one must (1) destroy so many of his fighting men that he cannot continue the war; or (2) must destroy so much of his production capacity that he cannot supply his men with fighting equipment; or (3) must destroy so many of his ships or roads and railways that he cannot haul supplies to his battle fronts; or (4) must overrun so much of his territory that he is helpless to continue the war.

One or more of these must always be accomplished, and in the end it is always necessary to overrun and take possession of so much of the resources of an enemy that he is convinced he has lost his war. Each department of *(Continued on page 14)*



An enemy submarine, forced to the surface by precision bombing, can be destroyed by long-range fire from heavy guns, or by airborne torpedoes, both delivered with the same accuracy that distinguished the Long Rifle.

Caliber *Versus* Know-How

By MILTON F. McQUEARY

EVERY HUNTING SEASON, scores of fine game animals are wounded and left to die lingering deaths, or to be finished off by predators—not because they weren't hit by a powerful enough bullet, but because that bullet wasn't properly placed or because an inexperienced hunter failed to follow up his hit. Heavy high-speed bullets with great shocking power have their place in the hunting field; but the lack of them causes less loss of game than does the prevalence each year of poor hunting methods and inexcusably bad marksmanship.

I have seen a goodly number of deer killed, with rifles of all calibers—from the too-light, small-game rifles such as the .22 Hornet, the .25-20, and the .25-35, up to the mighty Magnums—and I don't know of a single instance where a really well-placed shot failed to kill, and to kill quickly enough so the hunter got his game or could have done so had he possessed (and used) a reasonable degree of skill and persistence in tracking down his quarry. On the other hand, I have seen deer and elk lost after being hit with rifles of the .270 and .30-'06 class. Found and examined, these carcasses invariably showed poorly placed hits, usually through the guts or hams, broadside.

Of course, I don't mean to say that the .22 Hornet, .25-20, and similar rifles are powerful enough for big game; but the point I wish to make is that the caliber of your rifle is not nearly as important as the proper placing of your shot, and in the woodmanship you display after you shoot.

In fact, my observation of hunters has led me to believe that a great many of the men who carry large-caliber rifles are "overgunned." That is, they are afraid of the recoil of their rifles—with the result that, when they get a good shot at a deer, they flinch, jerk the trigger, or in some other manner throw their shot, so that they gut shoot their deer or only break a leg, and so lose him, even though the rifle is plenty powerful enough to kill with a fairly well-placed bullet.

I can sympathize with such fellows, because I am sensitive to recoil myself. I find I can kill large game, as well as small, much more reliably with a rifle of comparatively light recoil, due to the fact that I can place my bullet with greater exactness. If you are sensitive to recoil, it won't do any good to kid yourself about it. You might just as well trade in the old blunderbuss for one of lighter recoil and see if you can't do better shooting with it. Anyone can handle the recoil of the .257 Roberts or the .250-3000 Savage, and these rifles are plenty powerful when the bullets are well placed.

However, the successful killing of big game doesn't begin and end with firing of the shot. The hunter should exercise reasonable restraint in the kind of shots he attempts, and not shoot willy-nilly at game under any and all circumstances in which it may be sighted. Personally I prefer to turn down running shots in heavy timber. I also refuse shots from the rear, or any shot that makes it difficult or impossible to hit where I want to hit. There would be far less wounded and lost game if all hunters would do the same. I would rather come home without firing a shot than to wound a deer and lose him. And I find that, *by careful hunting and stalking*, I can always get a good, killing shot.

Another thing a lot of hunters overlook is the proper sighting in of their rifles. Some of them seem to think that as long as a rifle has sights on it, it will hit right where it looks. Others may figure it costs too much in wasted ammunition to sight in their rifles thoroughly. Still others may have no opportunity to sight in before the open season.

Yet there is probably no single thing more important in hunting than having your rifle correctly sighted in.

I have seen many men go hunting with rented or borrowed guns, without having the slightest notion as to whether or not their rifles were properly sighted in for them. Very often, such guns will shoot anywhere from six inches to two feet from the point of aim at a hundred yards. They may shoot so high or so low as to miss a buck deer completely at any considerable range, or they may shoot so far to right or left as to gut shoot a deer even when the aim was correctly held.

So by all means sight in your rifle before going into the woods. If you can't do it around home, take some extra ammunition with you when you go hunting, and if you can't go a day early so as to get the job done before the season opens, then do it first morning before starting out to hunt.

It only takes from a few minutes to an hour, and will amply repay you in increased results when you get that shot at the big buck. Pace off about 100 or 150 yards, set up your target or mark, and shoot at it from some kind of rest. (You are not testing yourself for marksmanship; you are sighting in your rifle. Use a rest to eliminate as far as possible any human error in holding.)

Most anything will do for a rest. A log or a rock with a coat thrown over it for a pad works very nicely. Or sit down by the bole of a tree which is big enough so it won't sway or shake from contact, and take a position with one foot on each side of the tree, both elbows on your knees, and the knuckles of the left hand resting against the tree trunk. This makes a very steady position and it is one that can often be used out in the hills for shots at game.

(Don't get the idea that using a rest to shoot at big game is unsportsmanlike! The sole purpose in shooting at big game is to kill it, and the more cleanly and humanely you can do the job, the better. I always use a rest of some sort in shooting at game, unless the shot is a very close one, or unless there is no possibility of using a rest. I have found that the fellow who always uses a rest when possible makes surer and cleaner kills than the boys who up and shoot at 'em, standing "on their hind legs like a man." That offhand business is fine for target shooting, but should be avoided whenever possible in game shooting. A fellow who has buck fever so bad he couldn't hit the side of a barn offhand can often make a clean kill with a steady rest.)

That takes care of what can be done *before* shooting. Now, to consider what can be done *after* firing at a deer. Entirely too many hunters have the idea that, if they hit a deer, he will fold up instantly. No idea could be more wrong. A deer or elk is more apt to jump and start running, even when fatally hit with a large-caliber rifle than he is to fall at once, unless he is hit in a nerve center such as the head, neck, or spine. Body shots cannot be depended upon to knock a deer or elk down. True, he may not go far before falling; but if there is much timber he will usually make it out of sight. If the hunter assumes that he has missed, simply because the deer didn't go down at once, the result will be a soured, bloated carcass for the coyotes to eat. Always look carefully for signs of a hit, and track your deer a considerable distance before giving up, even though you are sure you have missed.

And that brings up another thing. Many deer hunters think it takes an expert woodsman to follow a wounded buck, and so they don't even attempt to follow a cripple. That is another idea that's wrong. All that is required to follow a wounded deer is plenty of care, patience, and persistent application. Of course if he goes too far, and the tracks become too old, you will finally lose them. But many a wounded buck could be tracked down and killed if the hunter would try. Incidentally, the harder the tracking conditions, the more careful a hunter should be about the kind of shots he tries. When there is a good tracking snow it would be less unsportsmanlike to try a shot that might only wound a deer than it would be to try such a shot when the ground is bare and dry.

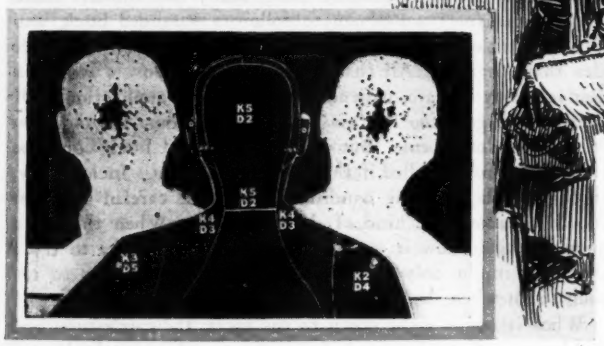
When it comes right down to the facts, the carelessness and recklessness of the hunter is far more apt to cause the loss of wounded game than the caliber of his rifle. And the less restrictions there are on hunting, the more reckless the shooting is apt to be. This was well illustrated by the results of the open season on does and cow elk here in Colorado in 1940. That was the first open season on the female of the species in this state, and never before has there been so many carcasses left rotting in the woods. They were entirely out of proportion to the number taken out. Now, the rifles used were undoubtedly the same ones used other years; so the most likely explanation is that, since the hunters didn't have to look for horns, a good many of them just shot at anything they saw moving, without taking any pains about their aiming; and, since there was plenty of game, if they didn't see an animal fall instantly, they didn't bother to follow it, but just went on and shot at another animal. Does and cow elk aren't any harder to kill than bucks or bulls, so the increased percentage of lost game could hardly be blamed on the rifles that were used.

Every year, fine game animals die lingering deaths, wasted, because hunters don't know how or don't care enough to stalk game properly, to shoot straight into vital areas, to track down wounded animals. . . . What kind of hunter are you?

Of course, if a man insists on trying to kill every buck deer, or bull elk he sees, regardless of the kind of shot presented, he should by all means carry the largest-caliber rifle obtainable. But even though he does that, he will still lose some of those he shoots at, if he hits them the (*Continued on page* 23)

Quick Draw Applied!

McGivern's "bank bandit" target. Black silhouette represents the hostage; white ones represent the bandit peering over hostage's shoulder. Note the condition of the bandit's face after one night's session of practice.



By ED McGIVERN

MANY INTERESTING DISCUSSIONS have appeared in print concerning various quick-draw and combat-shooting methods, but none so far has answered the very important question, "Just how positively and in just what time periods can bullets be placed by these methods on definitely designated, previously selected targets—and just how large must those targets be?"

The article, "Quick Draw," in the June, 1945, AMERICAN RIFLEMAN, gave a general outline of the various time periods required for the different types of quick gun-handling performances. Continuing the discussion, here is photographic evidence of the consistent results secured—not by one man who might be called a "freak," or who might have spent his whole life developing exceptional speed and skill—but by several members of our shooting classes.

We have all heard and read much and often about quick-draw artists placing their first bullet in their opponent's gun hand, in his throat, or between his eyes—of shooting whiskey glasses out of men's hands, clipping ashes off cigars, et cetera. We've heard, too, that all such things were hokum, impossible, pure bunk.

They're not impossible. On our training programs, they're not even listed as phenomenal. The evidence submitted herewith shows conclusively that all these things are quite easily within the reach of quick-draw first-shot performance, and without any very great expenditure of training time, either.

The men who fired the demonstration targets reproduced herewith are just ordinary men; men who were just mildly interested in shooting, who had had only very limited gun-handling experience before they became active members of our classes. Guy Kester is a cashier for the Milwaukee Railway Freight Offices. Don Hunter represents the Metropolitan Life Insurance Company. Robert Kaurin is co-proprietor of the Gem Cafe here. George Hollibaugh is Deputy Game Warden for Fergus and Central Montana Counties under the Montana State Fish and Game Commission.

Here, then, are the results of actual experiments: Quick-draw-plus-sure-hit demonstrations ranging from twenty-five draws (firing one shot on each draw) up to more than 150 draws per person and shots on one target; shots specifically "called" to hit chosen areas (face, hand, pit of stomach, et cetera); demonstrations by different shooters, carefully recorded, checked, and verified by reputable witnesses.

The close grouping on the silhouettes, paper plates, and other objects used as targets (many five-shot groups coverable by a silver half dollar) shows the positive control of bullet placement that can be developed by properly applied quick-draw training under time-period-control limitations.

Our research and experiment has so simplified the methods of training that some of our pupils who had some prior knowledge of gun handling have become

Meet "Alkali Ike," who will go for his six-pistol at the drop of a hat. Note the condition of Ike's hip, where McGivern's pupils have caught Ike's gun as it came into firing position.

quite proficient with certain types of draws in approximately eight hours' training time. Our verdict is that almost any sufficiently interested, average person can learn to do these things—and can learn in surprisingly short periods of time.

Nor does this so-called "slam-bang, fast-and-furious lead throwing" ruin the shooter's ability for consistent holding for deliberate accuracy. To prove this, Doctor Cox, one of our most proficient superspeed performers, recently cut 141 cards edgewise at eighteen feet, without a miss, by artificial light, using three different guns (two Smith & Wesson K .22's and a Colt Match Target Woodsman). An urgent telephone call ended the experiment.

After watching and checking thousands of draws similar to those made in these experiments, results show that draws bordering around half a second are usually successful for the advanced pupil on man-sized silhouette targets. Reducing the size of the target (or of the specified area on the target) necessitates the extension of the time periods, due to the additional effort required for more precise bullet control. But, as the following statistics show, even the time periods required for one-shot draw-and-hit performance on very small targets are still well within the limits of what would generally be called fast gun handling.

The 500-shot target shown here combines with records made on accurate timing devices to prove that our performers were able to score 94 per cent hits on a man-sized target in time periods bordering the half-second mark, with many of the draws shaving the draw-and-fire time to around two-fifths of a second.

Hitting the man in the eye, in the throat, in the shoulder, in the gun hand, or in any similarly chosen part of his anatomy takes slightly longer, but our tests prove that our experienced quick-draw performers can do it—not once, by accident, but consistently, calling their shots in advance—in time periods ranging around one and three-fifths seconds per draw and shot. The anatomical targets reproduced herewith show how accurately these shots can be placed and how closely they can be grouped on several successive separate trials.

Forewarned as I am by past experience, I can hear the critics say, "But what's the necessity of hitting a man in the eye, or in shooting at the gunman's hand?"

But it must be admitted that these experiments do prove the potential sure-hit possibilities of quick-draw shooting. And the methods used in developing speed combined with positive control of bullet placement will quickly and surely develop any lesser degree of practical proficiency that may be needed. The ability to draw and hit a man-sized target even in the comparatively slow time of one second might easily save a number of police lives each year. Such proficiency can be attained in a reasonably short period of time by simple, common-sense training methods. Make such skill common to all, or even to a large majority of law enforcement officers, and the deterrent effect on major criminal activities in this country would be incalculable.

(Captain Baughman, Chief of Firearms and Ballistics Division, Federal Bureau of Investigation, once said: "The ability to draw fast and shoot straight is of inestimable value to an officer. Not only does it enable him to save his own life by disposing of a dangerous criminal in an emergency—it gives the officer a confidence in himself, a sureness of his own ability, that very often enables him to carry off a situation without firing a shot and make an arrest that, without that self-confidence, might have required gunplay. Add to that the fact that, when criminals know they face officers who can shoot fast and straight, the criminals are less likely to resort to gun play—and you begin to get some idea of the value of firearms training in law enforcement."—EDITOR.)

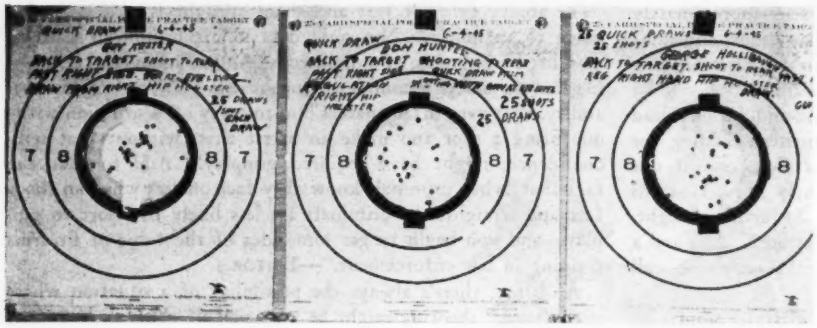
And, too, there's always the possibility of a situation where such "trick" shooting might be very useful. You all know the old, old story—favorite of fictioneers, but repeated time and again in real life—of the bandit who holds a hostage (bank cashier or guard, or sweet young gal) in front of him as a shield against the bullets of law enforcement officers or irate citizens while he (the bandit) peers over the captive's shoulder and thrusts his own gun past the captive's body to deliver his own often murderous fire. Naturally, the law enforcement officers and irate citizens hold their fire lest they kill the hostage. It has happened; will happen again.

But shooters can attain sufficient quick-draw accuracy, and sufficient confidence in their own ability to make it entirely practical for them to return the fire of the bandit in such circumstances—with unerringly deadly effect on the bandit. The degree of skill needed can be developed quickly by persistent effort. We know, because we've done it. Not once; repeatedly.

George Hollibaugh starting the cross draw from one of the fine Myres-McGivern cross-draw holsters used in these experiments.

This target shows results of five hundred shots by four shooters, using the short cross draw, firing one shot on each draw, in time periods of half a second or less. Thirty-two misses, all close. 468 hits, for an average of 94 per cent.

Can the quick-draw expert place his shots? Here are two anatomical targets fired by Guy Kesler and Bob Kausin, respectively, using the long cross draw, one shot per draw) to prove that he can! Note five shots in eye, five in throat, five in each shoulder, and five in heart on each target.



Another form of "bandit shooting." Stand with back to target, draw from right hip holster, turn body without moving the feet, and fire at a target directly to the rear. Distance, fifteen feet.

To determine the value of this type of shooting, we developed the "bank bandit" target shown on page 10. This target consists of three man-sized silhouettes; one, in black, representing the hostage; two, both white, representing the bandit. The "bandit" silhouettes are so pivoted and so controlled (by means of ropes) that they can be made to tilt to left or right so that they give the approximate appearance of a man looking out over the shoulder of his hostage.

The idea is to draw and shoot and make sure hits on the bandit's face, without injuring the "hostage."

After 650 trials, drawing and firing one shot each draw, with four different shooters taking turns, the hostage was still unharmed! Not a bullet had touched him.

After the first hundred shots, small paper plates four and a quarter inches in diameter were attached to the center of the heads of the bandit targets, and these plates sufficed to cover all but a small percentage of the shots. The picture reproduced herewith shows the centers of the bandit's head shot completely away—the result of one evening's practice firing. Two seconds seems to be a satisfactory time allowance for the average trained person to draw and fire one such carefully placed shot.

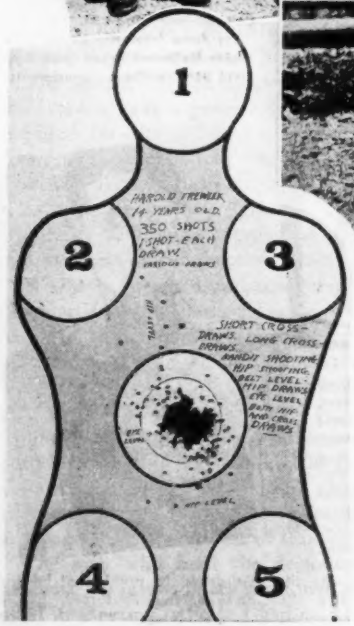
Much skepticism has been expressed, vocally and in print, about many of the feats said to have been performed by handgun wizards of fact and fiction. One question frequently asked is, "Is it or is it not possible for a gunman to hit (intentionally) the gun, or gun hand, of an enemy as that enemy draws his weapon?"

Probably only in fiction would any such feat be attempted. In real life, if a situation had come to the point of an exchange of shots, both shooters would almost certainly try for the bigger target (i. e., the body of the opposing gunman) rather than risk receiving a mortal hit while trying to deliver a nonmortal one.

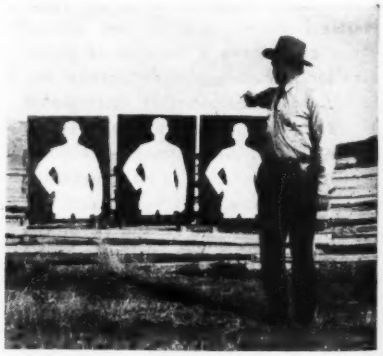
But the question was asked, and so we have attempted to provide the answer. To do so, we devised still another mechanical target which we call "Alkali Ike." Ike has a movable arm, pivoted at the shoulder, spring actuated, and so controlled that it moves its hand through the approximate arc of a fairly fast hip-holster draw.

When the target operator pulls the cord, Ike's hand "goes for his gun." The quick-draw pupil who is acting the part of

Harold Treweek, McGivern's grandson, fourteen years old, left-handed, is a stellar quick-draw performer and remarkably adept at aerial targets. Pictures at left and below show him wearing the belt-and-holster outfit made for him by Myres, of El Paso.



A triple-exposure shadow shot shows Harold shooting left-handed after cross draw from right-side holster, and shooting at an aerial target after drawing from left hip. Note that there is no movement of feet, no fancy posturing. Target at left demonstrates Harold's accurate bullet placement. 350 shots, quick draw, one shot each draw, at fifteen feet.



George Hollibaugh demonstrating back-to-target bandit shooting, using a cross-draw holster, turning to the right, raising gun to eye level. (Shooter can turn left and shoot from hip level.) Extremely fast and accurate results can be obtained either way.

Ike's opponent starts his hand toward his holstered gun at the same instant that he detects the starting movement of Ike's hand. The idea is to draw and fire one shot, double action, and hit the four-and-a-quarter-inch paper plate which represents Ike's gun hand as (or before) Ike's hand reaches the position at which his shot would normally be delivered.

The answer is, "It can be done." Scores of shots so fired produced a startlingly high percentage of hits. The close grouping of shots is apparent in the picture, which shows the numerous hits in the hip area from which Ike would probably shoot. (The hit area would depend, of course, on the type of draw the opponent used.)

Time periods for various stages of training development are controlled by the target operator, ranging from three and a half or four seconds in the earlier training periods down to time periods around one second when so desired, for the better performers. The time period generally allowed for this draw-fire-and-hit performance is around two seconds.

In both of these experiments, guns were drawn from left-side cross-draw holsters in what is referred to elsewhere in this article as the long cross draw, or from regulation right-side hip holsters. The guns are brought to eye level for delivering the shots. This method of delivering the shots is a sort of compromise between what is generally called "instinctive pointing" and a short flash image of definite sighting. It is usually more accurate than just "point shooting," and faster than deliberate sighting.

(Some of the other quick-draw results referred to in this and in previous articles, using cross-draw holsters, showing time periods considerably less than those just quoted, were made with what we call the *short* cross draw—in which the gun is fired at the instant it clears the holster, from hip or belt level, without moving the gun out or up away from the body. The additional time required to move the gun out to near arm's length and up to eye level accounts for much of the increase in time.)

Then there's another type of what we call "bandit shooting," in which the shooter stands with his back to his target, draws his gun from a cross-draw holster, twists his body to the left without moving his feet, and shoots to the rear with his gun hand held close to his left side and with his arm across his stomach. One or more shots can be fired in this manner, at high speed and with startlingly accurate bullet placement.

A variation of this performance is for the shooter (still with his back to the target) to draw, turn his body to the *right* without moving his feet, and fire by bringing the gun to the rear past his right hip. In this movement, the gun hand turns in just the right position so that the gun can be raised to eye level if desired. (See photograph, page 12.)

Excellent results from quickly delivered shots can be secured by either of these methods without giving advance notice to the opponent in the rear that a shot is coming. It is easy enough to imagine an actual kill-or-be-killed situation where such a "trick" would be extremely practical.

Here are a few further conclusions, based on these and many other experiments:

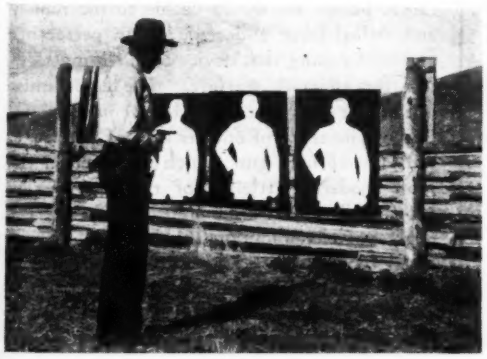
It is our belief that what we here term the short cross draw (where shot is fired at belt level at the instant the gun clears the holster) is the shortest, most time-saving draw, and the draw requiring the least hand movement, of all the draws on our list.

What we call the long cross draw, where the gun is drawn from the same cross-draw-holster arrangement (from either side) but is brought up and out with extended arm to eye level, enables the shooter to combine very accurate bullet placement with very satisfactory speed.

The regulation fairly low-hung hip holster is just about equal to the short cross draw when the gun is fired from the hip—and is just about equal to the long cross draw when gun is brought to eye level.

Either the short or long cross draw, or the draw from regular hip holsters, are favorable for good results in any of the tests so far described—at the "bank bandit," at "Alkali Ike," or at targets to the rear.

(*Continued on page 24*)



Left: Hollibaugh demonstrates the short cross draw. Shot is fired as soon as gun clears holster and is leveled. Requiring the shortest possible hand movement, this is one of the fastest draws known. It is also productive of sure hits, because the gun hand and arm are firmly supported by the body at the instant the shot is fired.

Right: Quick draw—and call your shots! Each target shows twenty-five shots in its face, twenty-five in its left hand, twenty-five in the stomach, and at least fifty in the heart. Note similarity of groups for all four shooters.

It's An Old American Custom

(*Continued from page 7*)

an army then must think of all of these necessary accomplishments in recommending a program of design, development, manufacture, and transportation of any and all of the array of instruments that are employed in warfare. One may sum this up by saying that each item decided upon and then designed, developed, and produced must accomplish its mission with such a degree of dependability that one may definitely count upon it to assist in winning the war. There must be some standard and accepted specification for accuracy and some accepted requirement as to destructive power. In other words, some specification for total performance, such as was set by the woodsman's rifle in 1775, must be adopted by military designers.

It was in the First World War that a tremendous revolution took place in the realm of artillery—devices for projecting a destructive missile against a given target with a predictable degree of accuracy. The revolution was essentially in the nature of "seeing to it that the destructive power was delivered at the target." Much conventional artillery, however, has so great a range that it is not possible to see the target. It is then necessary to operate by what we call "indirect fire." But immediate observation of the effects of the delivery of the destructive power is of so great value in following up with other telling blows that the idea of carrying the destructive power right onto the target has always been an alluring one. Chinese soldiers have fastened huge quantities of dynamite to their bodies, walked into barriers, and blown them up. It is the practice now of a certain group of Japanese airmen to crash their ships into the enemy ships, a method of operation that bespeaks desperation and is used only as an illustration of the ideal toward which the revolution was aiming.

This revolution effected the final classification of artillery into four groups: First, conventional artillery in the field on wheels, or in seacoast fortifications on concrete foundations, or on battleships; second, a submersible ship whose projectile is a submarine torpedo and whose target is a ship which it sees at the moment of firing the torpedo; third, a self-propelled piece of artillery with considerable armor for protection, which we call a tank; and, fourth, the modern ideal, the bombing plane, which drops its load of explosives on the target through the use of unusually intricate sights of the Norden type, or drops its torpedoes into the water with such accuracy that great numbers of Japanese ships have been destroyed thereby.

Only a beginning was made in the development of three of these types of new artillery in the other war; that is, the submarine, the tank, and the airplane. But between these wars so much was done that the use of the Stuka dive bomber and the mass use of tanks by the Germans in Poland and in the Low Countries was terrifying indeed.

In the period 1940-42, the use of the undersea form of artillery against British shipping became so effective that it looked for a time as though Britain were gone. It even appeared that the artillery placed on battleships had become relatively ineffective, and for a while we wondered if the battleship was still a worth-while investment.

But be it remembered that the effectiveness of the destructive power of the submarine and the tank and the airplane was largely due to the fact that they were direct-fire instruments, that the operators were, therefore, seeing their targets and could determine round for round whether they were effectively hitting those targets.

Precision and accuracy have thus become an American obsession. If one is to accomplish his mission in warfare, which is to destroy (1) an enemy's army, or (2) his resources, or (3) his transportation facilities, or (4) occupy his territory, one must *hit the target*, whatever it may be, *accurately, consistently, and effectively.*

The question then always is: What must be the achievement of an instrument in the hands of our operating services to warrant approval of the use of money obtained through the sale of bonds and the efforts of skilled workmen and manufacturing facilities? The original specification, set up quite accidentally in the Lancaster rifle, was a probable error not in excess of one-tenth of one per cent of the range.

Starting with the conventional artillery, of all calibers, from 20 mm. through 40, 75 and 76, 90, 105, 155, and 210 mm., and sea artillery from 40 mm. to 16-inch cannon, we find that we do expect and demand a very definite and highly precise degree of accuracy. One of the most accurate weapons of the other war, which is used in this one also, was the 155 mm. French howitzer. It had a range of about 10,000 yards. The range tables for that weapon, checked by the actual performance of many such weapons, indicate that the probable error in direction was one-half mil. This technical designation of the probable error in mils is very convenient because it is the angle which subtends one unit at 1,000 units. An error of one-tenth of one per cent is an error of one mil. It is always possible, therefore, to determine the probable error in feet or yards at any range—one foot at 1,000 feet, one yard at 1,000 yards. Thus, the probable error in direction of this 155 mm. French howitzer at 10,000 yards was five yards, or fifteen feet.

It is safe to take the "probable error" of the very accurate 155 mm. First World War howitzer, either equaled or bettered by the cannon of this war, as the indication of the degree of accuracy that we must have in the delivery of destructive power on a worth-while target before we would decide to use money and skilled labor and resources in perfecting and then issuing that device to our using services for effective warfare. The error must not be in excess of *one-half of one mil*, or one-half of one-tenth of one per cent of the range.

If the 16-inch gun, which is placed on the most modern battleship of the *New Jersey* type, is placed on a concrete foundation, the degree of accuracy of this weapon will be equal to that of the howitzer just discussed. At any given range, the probable error will not be in excess of one-half of one-tenth of one per cent. Moreover, if this cannon is placed

NOTE WELL

Do you know what this emblem means? You should! You'll see it more and more frequently. Eventually, 13,000,000 men and women will wear it. Each one of those men and women has done you a personal, unrepayable service. The very least you can do is to recognize this insigne. It is the Honorable Service Emblem, to be worn by veterans of this War. Remember it, and honor it.

on a floating platform of the battleship type and operated with its platform having three motions, that is, in the direction in which the ship is steaming, a pitching motion, and a rolling motion, it is still possible for operators of this cannon to fire upon a worth-while moving target at 20,000 yards range, and even greater, and destroy that target. With the effects of these three motions of the platform, the probable error, it is true, is in excess of one-half of one-tenth of one per cent, but even so, starting with the extremely accurate cannon, it is still worth while to spend $75,000,000 on a floating platform for nine of these big guns. They have amply demonstrated what they can do.

The degree of accuracy attainable from the other two pieces of artillery, the submarine and the airplane, are not quite so great as for the cannon on battleships. This is primarily because the principle of directing the course of the missile is less effective, even though both operate at ranges not exceeding five miles. It would be an extraordinary chance if any naval engagement were fought at such a close range as five miles. It could happen, but it seldom does. With the airplane, however, the B-17, B-24, or B-29, operating at an elevation of 25,000 feet, it is possible to drop 2,000-pound bombs on a target—a factory, a railway yard, a harbor, a bridge, or any other acceptable objective—with a probable error no greater than five mils.

"Sir, the Admiral says tighten your sling and try squeezin' 'em off!"

To do this, it is necessary to use a sight of the precise character of the Norden sight, but it is accomplished so consistently that whenever weather permits, we are sending out our B-17's, 24's, and 29's to operate at the maximum practical height for the visibility of the time, and they are definitely destroying the targets. At 25,000 feet, a probable error of five mils means 125 feet. That would mean then, that if the Pentagon Building in Washington represented vital airplane or other war-production factories, none of the bombs would miss the target. It would make almost no difference, therefore, what the carrying devices for those bombs would cost. They would still be regarded as worth while, because they would permit the accomplishment of one of the aims of warfare, the destruction of vitally needed manufacturing resources.

The cost of a B-17, or a B-24, was between $400,000 and $500,000 when we first began to construct them. We have not been told what a B-29 costs; it is probably much more. But because of their very practical accomplishment of dropping 2,000- or even 4,000-pound bombs on a target with a probable error not in excess of 125 feet for an elevation of 25,000 feet, we regarded the expenditure as worth while and have constructed the Willow Run Bomber Plant and many others all over the United States. That form of artillery is never going out of use. It has demonstrated its value in terms of the accuracy and the destructive power of its performance.

The writer cannot speak as positively concerning the accuracy of the submarine as about the cannon and the airplane. A modern torpedo, however, has a power range of about four miles. The stabilizing gyroscopic mechanism, which keeps it on its course and at the proper level, has been so far developed that a torpedo will remain almost perfectly on its course for several miles. It seems safe to say that at the maximum working range of the torpedo, about two miles, the probable error is not in excess of five mils—approximately fifty feet. This makes it profitable to operate against any ship in excess of 300 feet in length, and renders light cruisers, battleships, and aircraft carriers relatively easy targets. It is thus practical and a common practice for all nations to build submarines, and with these devices the Germans almost destroyed Britain.

To summarize the observations made with reference to the fundamental purposes in warfare and the devices which all nations build to accomplish those purposes, we find that American colonists went a long way toward winning the Revolutionary War with a handgun, a muzzle-loading rifle, commonly referred to as a Lancaster rifle or a Kentucky rifle, whose probable error at 200 yards was *not greater than one-half of one mil. An all-time specification for performance was thereby set.*

The famous 75 mm. gun was well nigh worth its weight in gold because of its probable error of less than one-half of one mil. A whole series of First World War cannon, as well as American seacoast cannon, were built at fabulous cost and used with highly destructive effect because their error was not in excess of this requirement. We put the same cannon on our armored vehicles in order that they may go into the territory of the enemy and fire at his pillboxes and similar devices over "open sights," because those cannon likewise have an error not in excess of one-half of one mil. Those vehicles, tanks, and tank destroyers may cost $50,000 each.

Germany has relied heavily on five- to ten-million-dollar submarines, and we Americans have accomplished tremendous destruction of Japanese shipping with our own submarines, costing approximately $10,000,000, because the error of their torpedoes is not in excess of five mils. We have spent as much of $500,000 on B-17's and B-24's, and perhaps as much as $1,000,000 on B-29's, because the bombardiers on those planes, using Norden bombsights, can drop one- and two-ton bombs on worth-while targets from an elevation as great as 25,000 feet, with a probable error not greater than five mils, or 125 feet.

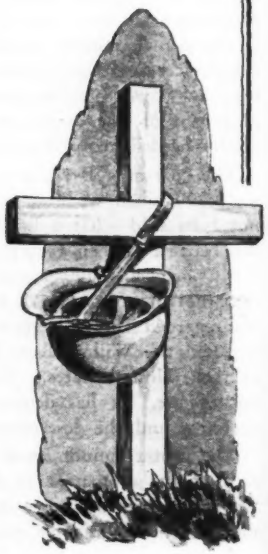
A nation with an ample supply of all of these devices—the present Garand rifle, with a probable error less than one-fifth of one mil; cannon on field carriages, on ships, on tanks, on tank chassis as antitank destroyers, all having an error not in excess of one-half of one mil; submarines with an error for the torpedo not in excess of five mils; and the bombing plane, again with an error not in excess of five mils—has little if any need for freak V-weapons. A nation having an ample supply of all these, with facilities for their repair *and expert men to use them,* is as well off as a nation can be in warfare. And, for emphasis again, each and every one of these devices has been built at a tremendous cost and in tremendous quantities for the simple reason that they have demonstrated very thoroughly what they will do toward the winning of a war. ● ● ●

AUGUST 14, 1945

Almighty God,
by whose unfailing aid
our cause was won,
grant us now the strength
and the wisdom
and the faith
to build
a new world
in which peace
and the brotherhood of all mankind
shall prevail
forever more.
Remind us that

"... It is for us the living, rather, to be dedicated ... to the unfinished work which they who fought ... have thus far so nobly advanced. ... to the great task remaining before us—that from these honored dead we take increased devotion to that cause for which they gave the last full measure of devotion—that we here highly resolve that these dead shall not have died in vain—that this nation, under God, shall have a new birth of freedom—and that government of the people, by the people, for the people shall not perish from the earth."

—*A. Lincoln.*



V

Notes on Some European Arms

By W. H. B. SMITH

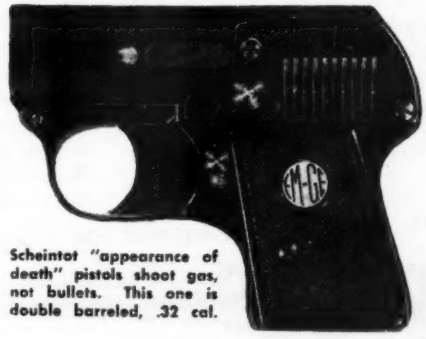
SCHEINTOT PISTOLS

"SCHEINTOT" IN GERMAN MEANS "appearance of death." It is a name originally applied years ago to a form of gas pistol which was intended to knock out an adversary, give him "the appearance of death," without actually killing him.

So many of the pistols have turned up and so many inquiries have been made about them that a warning is required concerning them.

Gas pistols are usually larger than standard pistols, and, therefore, very often may be spotted for what they are—i.e., weapons to take low-pressure loads which form and blast out an incapacitating gas. But a great many have appeared bored for revolver-type cartridges. And in every weapon of this type that I have seen or have had reported from a competent source, *the bore has been constricted just ahead of the chamber.* Since gas cartridges are normally longer than ball cartridges, many of these pistols will take a standard .32 or a .38 Smith & Wesson bulleted cartridge in the chamber. But if a ball cartridge is *fired* in one of these pistols, serious injury or even death may result! A bullet cannot leave the barrel, and few such pistols are built to stand the resultant breech pressure.

The accompanying pictures show one of the latest arrivals of this type. It is chambered for the European .320 black-powder cartridge loaded with a gas mixture. At first glance it will be seen to resemble a rather well-made .25 automatic. Actually, it is a tip-down double-barreled gas pistol. It may be used as a blank gun, but should never be used with ball ammunition.



Scheintot "appearance of death" pistols shoot gas, not bullets. This one is double barreled, .32 cal.

This pistol should be of interest to American shotgun manufacturers because of the unique single-trigger firing system which uses a minimum of parts and coil springs throughout. It could be modified to make a good and very cheap single trigger for double guns.

THE LAST GREAT WALTHERS

Besides the famous P-38 (abbreviation for Pistole 38, marking the year of its adoption) this Walther arm was made in "hammerless" style with a spurless hammer enclosed by the slide. Other variations had long barrels and detachable stocks. The final great Walther developments were pistols with receivers and slides of cast Duralumin, cheap and easy to make; a trick that might well revolutionize pistol manufacture.

QUESTIONS ON FOREIGN ARMS

If you are one of the several hundred people per month who receive some new pistol or rifle from your boy or your friend in the service and can't find out what it is or what cartridge it uses, the following data from my revolver files alone may help you to understand why no expert can give a detailed reply to an offhand question without a personal study of your weapon.

First, let us take a look at the calibers in which German, Spanish, Belgian, Italian, and Czech revolvers were made and which are utterly unknown in the United States: *Pin-Fire Cartridges*—5, 7, 9, 12, and 15 mm. (I have a listing of eight varieties of 9 mm. Pin Fires alone, none of them interchangeable.) *Rim-Fire Cartridges*—5.8 mm. Longue Portee, .297, .30, .320 Extra Short, .320 Short, .320 Long, .340, .380 Short, .380 Long, .410 Short Special, .440 (11.1 mm.) and .44 (11.2 mm.). *Center-Fire Cartridges*—.230, .320 Short, .320 Long, .340 (8.75 mm.), .380 (9 mm.) and .380 (9.6 mm.) Short and Long, 7 mm., .297-300, .297, 7.62 mm. Russian, 8 mm. Gasser, 8 mm. Lebel, 7.7 mm. Swiss, 9 mm. French, 9 mm. Extra Long, 9.6 mm. Dutch, 10.6 mm. Mauser, .410 Extra Long, .44-18-200, .443 (11.3 mm.), 11.15 mm. German, 11.75 mm. Montenegrin Gasser, 12 mm. French, .500 (13.15 mm.) and 5.77 Eley (15 mm.).

Remember that foreign pot-metal weapons have also been made for every British and every American caliber, and you get some idea of the extent of the *caliber range* alone.

The most extensive, thorough, and scientific file of data on ammunition ever compiled is unquestionably that of the H. P. White Company, Ordnance Engineers of Cleveland. To my personal knowledge, Mr. B. D. Munhall, Manager of that Company, has more ammunition data at his fingertips than are contained in the files of any cartridge manufacturer in the United States; yet in spite of years of intense specialization, he is constantly encountering new or little-known calibers, loads, and brands. So, if you want to become a cartridge collector, here's hoping that you come from a line of hardy, long-lived ancestors!

THE TOKAREV 40—THE RUSSIAN "GARAND"

From an engineering and design standpoint, no semiautomatic rifle in use in the world today excels the Russian Tokarev 40. From the standpoint of finish (which hasn't so far proved to be a great help in increasing killing capacity of a rifle), it is inferior to United States and German rifles of its class. But it embodies *simple* and intelligent engineering principles and manufacturing short cuts to a degree unknown in any other current semiautomatic rifle.

Picture No. 1 (showing the rifle with bolt open and minus

only the wooden stock, metal operating rod cover, and magazine) high lights features of this weapon never before published in the United States—although they have been openly covered in German technical publications. Starting at the muzzle, note that this rifle is fitted with a muzzle brake of high efficiency. Under actual test, this type of brake (or compensator, if you prefer a less correct term) reduces recoil about 40 per cent! This unit, together with the bayonet lug, forms part of the gas-piston assembly. Driving out the locking lug below the piston permits the entire unit to be removed easily by unscrewing from the barrel. Note that the front sight is hooded.

The short gas cylinder (into which passes the gas escaping through the gas port in the barrel) directs the gas back against the piston which floats over the cylinder. A small external nut is provided which can be turned to give four different degrees of gas release, either to speed up the operating rate or to relieve sluggishness without having to clean a fouled cylinder.

The floating piston drives back the long operating tappet which is seated in the short operating rod, driving the rod back through a hole in the receiver above the barrel to unlock and push the bolt straight back to eject, cock, and reload.

Any machinist will recognize at a glance the extremely simple nature of the mechanism, as well as its ease and cheapness to manufacture. Practically all these parts can be made with simple screw machinery; and as all units operate in a straight line, lower grades of steel can be used with a minimum of machining and heat-treating.

The magazine is a detachable box of ten-shot capacity normally, though the capacity is dependent entirely on the length of the staggered box. The magazine catch may be folded back under the trigger guard assembly when not needed. To remove the magazine it is necessary only to grasp it with the hand and compress the catch with the thumb of the same hand. Note that a feed guide is machined into the receiver cover, permitting cartridges to be stripped in through the top from standard five-shot rifle clips. The box may be refilled at any time during use by withdrawing it from the rifle.

Because of the bolt design and the positioning of the operating and buffer springs directly behind the bolt, it is possible to machine telescope-mounting guides directly into the receiver and at the point where maximum eye relief is obtained.

The safety is a positive and elementary swinging lever mounted directly behind the trigger. In the photograph, it has been pushed through to leave the trigger free to move back for firing.

THE COVER

All over the world, in foxholes like this, men like this, with rifles, with knives stuck into the foxhole rim above them in case of last-ditch need, carry the brunt of war. There's a lot of mud and a lot of possibility of dying, and not much hope of glory in a foxhole. A man is pretty much alone there with his courage and his fear, with his God, and his rifle. We think that something of this drabness, this aloneness, has been caught here in this fine kodachrome by Staff Sergeant Ralph Bellinger, USMCR.

Photograph No. 2 gives a clear conception of how the operating rod is driven back to start the bolt carrier back. As pressure drops, surfaces machined in the carrier and in the bolt cause the carrier to pick up and unlock the bolt by forcing it up a cam face; thence, the whole assembly travels back in straight line.

One of the most ingenious features of the rifle is the manner in which tough, difficult-to-machine steel is used only where necessary. Instead of the customary system of making the entire receiver of the highest-grade steel, with this design a locking block which takes most of the shock is inserted in the receiver. It and the bolt and bolt carrier are the only pieces to be carefully machined from high-tensile materials. (Incidentally, a study of the bolt lock in action seems to indicate that an attempt has also been made to incorporate an expansion locking principle somewhat as outlined by Blish, as well as a falling bolt lock.)

To sum up, the Russians have developed a rifle which is simple to use, clean, and repair—which has been engineered on the soundest mechanical principles of straight-line operation—with a minimum of small or breakable parts; a rifle capable of being manufactured with simple machine facilities at probably the lowest unit cost of any semiautomatic rifle so far.

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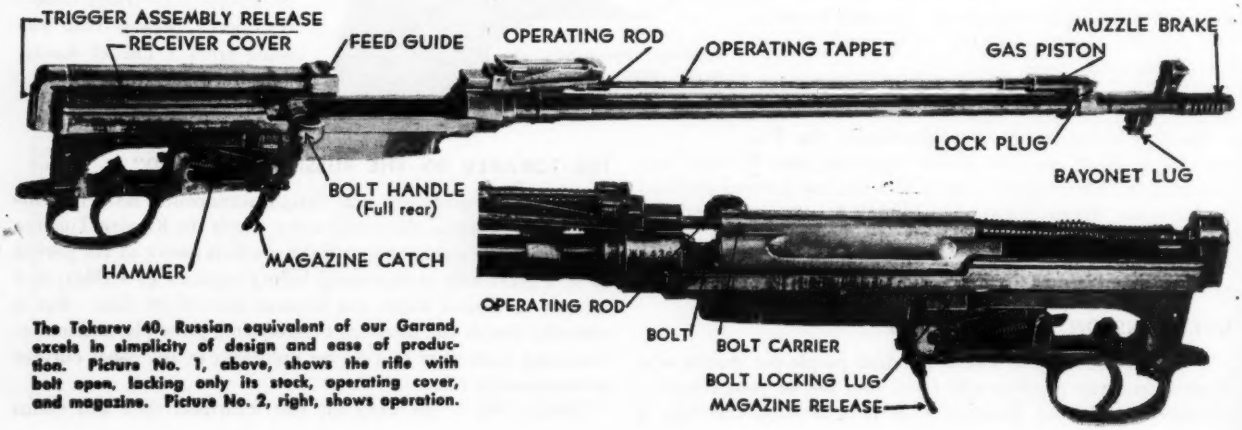

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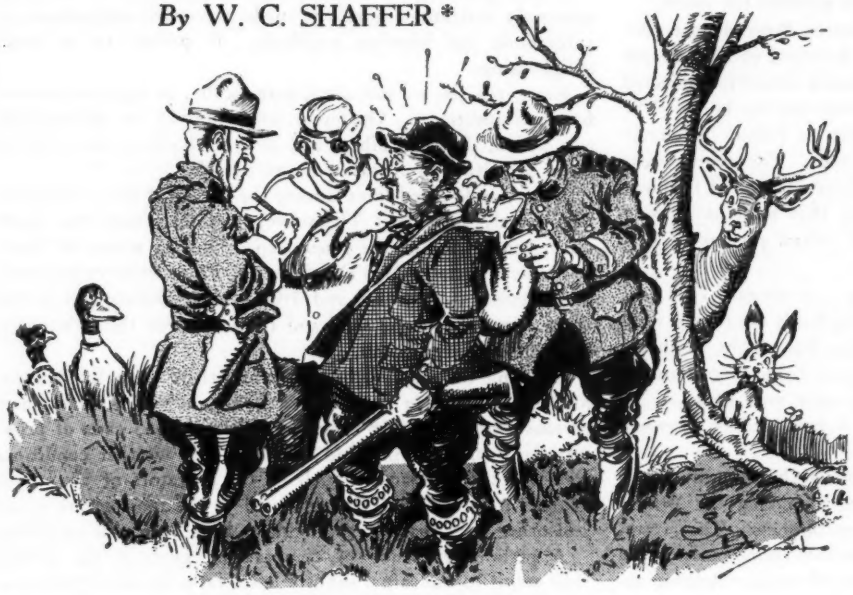
FITNESS EXAMINATION for HUNTERS

By W. C. SHAFFER *



THE TOPIC UNDER CONSIDERATION is certainly not a new one and probably has been studied as seriously and carefully as any other subject receiving the attention of game law administrators.

The discussions on how to avert hunting accidents seem to lead to but one conclusion by those who have not given study to the problem. Whenever hunting accidents are discussed somebody inevitably offers the remark: "They ought to examine every hunter before they allow him to go into the woods."

The problem is not so readily solved as those who jump to such conclusions would have us believe. Most of the proponents of the idea seem to think that the mere examination of a hunter to determine his knowledge of the handling of a firearm, his vision, and his knowledge of safety principles, coupled with adequate legislation, is all that is required.

The State of Pennsylvania has for many years been interested in the subject of preventing hunting accidents and has devoted a great deal of time and energy to the matter, hopeful that some solution might be found to this perennial problem which not only takes life, maims unsuspecting victims, produces costly hospitalization, and leaves many households without a breadwinner, to say nothing of the fatherless children.

No state in the country has as many laws designed primarily to assure human safety and so rigidly enforced as Pennsylvania. Despite these inhibitions and their strict enforcement, we still suffer too high an annual rate of accidents. None of the prominent sportsmen who have so loudly proclaimed the "examination method" as the panacea for the elimination of hunting accidents has been able so far to suggest any worth-while method of accomplishing this highly desirable objective.

Let us consider the mechanics involved to examine 591,820 resident hunters who obtained licenses in Pennsylvania last year and add to this 13,961 nonresidents who came to Pennsylvania to hunt. It is conservatively estimated that 100,000 farmers hunt in Pennsylvania each year, on their own and adjacent property, who are not required to take out a license. The hunters to be examined would run well over 700,000. Annually, thousands of youth become eligible to secure licenses which adds mathematical complexity to the problem. The physical problem alone is immense, but could be accomplished if worth-while results were to be assured. But can they be?

Most persons who handle a firearm know that it is deadly and certainly need no demonstration to prove its potential possibilities as a lethal weapon. Examining a hunter on the component parts of a firearm would be of little value. When he appeared for examination he would be well drilled in the safe handling of a weapon and probably could load, unload, and handle it as well as the manufacturer who designed and made the weapon. Of all the tests that have been suggested, no one has, and no one apparently can, devise the ONE test that should be applied.

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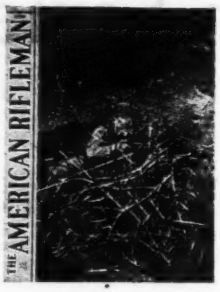

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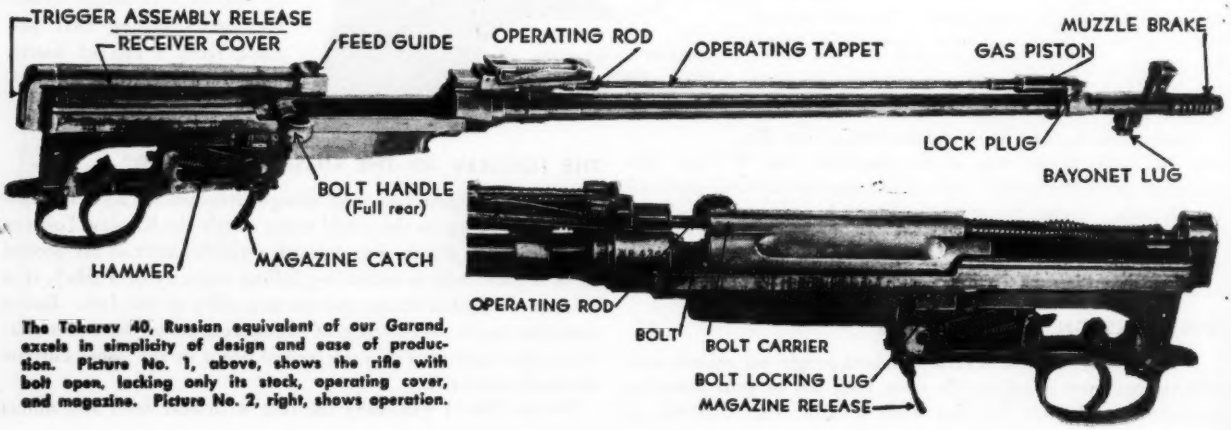

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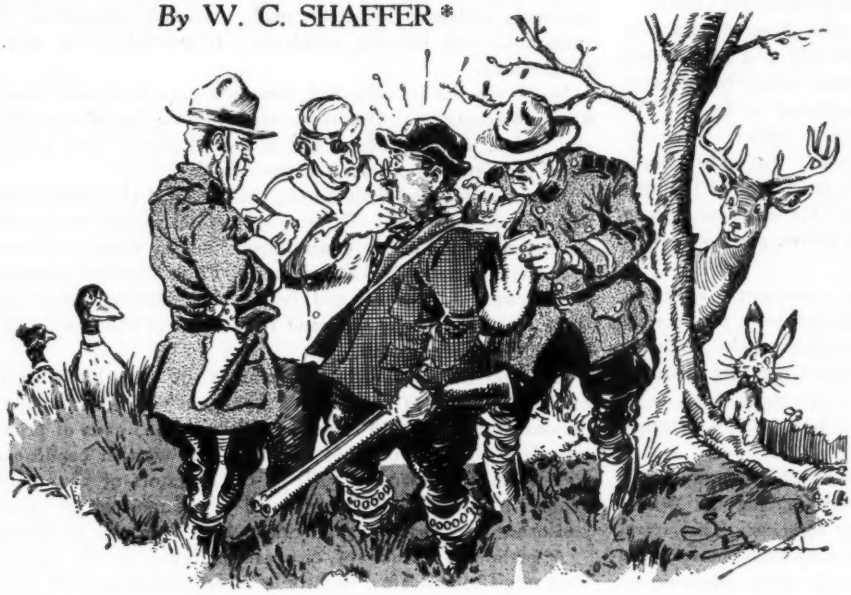

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examination under favorable conditions. No examination, scale, or standard has yet been devised to measure the hunter's mental reaction under extraordinary conditions, which cannot be produced artifically, but which he meets in the woods every day; such things as birds flushing madly in their effort to escape, or big game cunningly negotiating a steep mountainside. Until a practical standard is devised, the examination of hunters appears to be largely a waste of time, effort, and money. Its only value would likely be psychological, and not commensurate even to a small degree with the effort required to produce the result.

A few years ago a hunting accident in Pennsylvania provoked a number of persons to write to the editor of a newspaper in that locality protesting that every hunter should be subjected to severe vision tests before being permitted to hunt. The offender, it seems, wore glasses to correct his vision. Strangely enough he hit his target on the first shot. For many weeks the community was stirred up over this accident, and frequent editorial comment appeared demanding that something along the line of vision tests be worked out before persons be permitted to hunt.

Let us consider that phase alone for a moment. First, the offending hunters seem to be hitting the bull's-eye pretty well, even if it is a human being. Experience has taught us that a man who requires correct vision is no more liable to go hunting and do something foolish than is the same man likely to go fishing and make a false step out of a boat and be drowned because of defective vision.

One sportsman, in discussing the proposal, humorously stated that he believed the optometrists were advancing the "vision test" idea with a view of creating new business. That statement, of course, was not true and was only humorously made.

We are told that even with corrected vision frequent re-examinations are required of the eyes in order to keep pace with their rapid change. How often, if vision tests were required, should the hunter be made to submit to such an examination?

The same question applies to any type of examination that might be designed. As persons become older we are told their reflexes are retarded. Under a system of examining hunters it might be found that when persons reach a certain age they should be denied the right to hunt. Grand disputes would arise between the enforcement authorities and the individual as to the degree of competency of the hunter and his legal right to hunt! Some cases would undoubtedly end up in bitter litigation.

The examination of automobile operators is compulsory in a great many states today. Despite comprehensive tests of vision, reflex action, driving ability, laws and safety precautions, we still have an appalling volume of automobile accidents annually, all caused by people who have been examined and approved to drive motor vehicles. Why? Simply because no means or device has been perfected to measure reactions under unforeseen circumstances that could be simulated when the applicant was examined.

A few years ago one of our staff officers, who has been extremely interested in safety, made a relative comparison of automobile and hunting accidents. It proved to be most enlightening.

Motor vehicles are subjected, periodically, to rigid mechanical fitness inspections. Operators are required to successfully pass vision, driving ability, and tests of highway laws before being permitted to operate a motor vehicle.

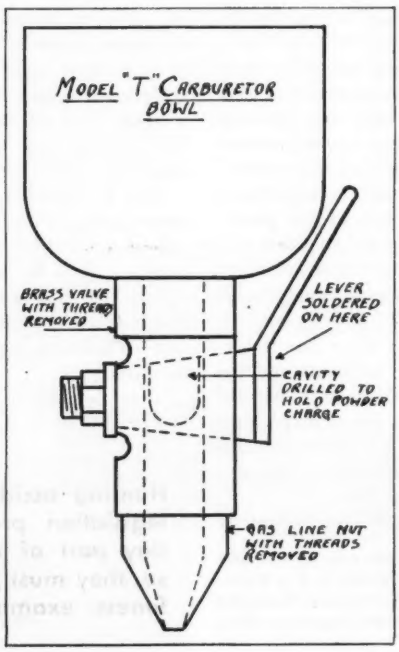
A fifty-mile speed limit during the period of the comparison was strictly enforced. The survey just mentioned was made during the period of the general open hunting season in Pennsylvania, November 1 to December 15, 1939, Sundays excepted, and between 7:00 A. M. and 5:00 P. M. During this period there were thirty-four fatal and three hundred thirty-six non-fatal hunting accidents.

Utilizing the same dates and hours, there were 1,268 automobile accidents, *in rural districts only*, in which thirty-three persons were killed, 859 injured, resulting in 463 cases of property damage. Bear in mind that light and weather conditions were exactly comparable. All of the operators of the motor vehicles involved had been subjected to the most severe vision and other tests that safety engineers have been able to devise.

A preliminary study of comparable figures at the present time seems to indicate a slightly lesser ratio in automobile accidents, which highway authorities attribute to reduction in speed limits to thirty-five miles per hour and less vehicular traffic because of the inhibition against non-essential use of automobiles.

There are few industries in the country today which are not by legislative action required to take every precaution to see that their employees are protected from all conceivable physical hazards. Accidents, both major and minor, are still reported daily.

Until those who are struggling with this tremendous problem can devise some means of examining the applicant under conditions that he will constantly meet while afield, it appears we must content ourselves to increase our efforts towards


MODEL "T" CARBURETOR BOWL
BRASS VALVE WITH THREADS REMOVED
LEVER SOLDERED ON HERE
CAVITY DRILLED TO HOLD POWDER CHARGE
GAS LINE NUT WITH THREADS REMOVED

The Model T lives on. Here's a simple powder measure made out of the carburetor bowl of a Model T Ford, a brass double-end valve, a tapered brass nut for coupling brass pipe, a clamp from the dime store, and a handle for the valve.

First, take the valve apart and ream the threads out of both ends of the housing. Then fill the hole in the tumbler with brass. Mount the carburetor bowl on one end of the valve and the gas-line nut on the other. Be sure that the threads are all reamed out of the nut and the interior is smooth so that the powder will pass through cleanly. Now, fasten the dime-store bench clamp on the back of the valve beneath the carburetor bowl.

The handle should be fastened securely to the tumbler of the valve. This can be soldered, brazed, or otherwise fastened in such a manner that you will know in which way the cavity is pointing. This cavity is drilled into the tumbler as shown in the drawing and should be just large enough to hold the amount of powder needed for your particular load.

There's your powder measure; cheap, easy to make, second to none in accuracy.—Dr. Lesly H. Opdyke, LaCrosse, Kansas.

training present and prospective shooters in safety methods through every possible channel. The youth of our country must be trained to respect firearms and to handle them safely and efficiently—whether intended for use in hunting, general recreational pursuits, or in self-defense.

To sum up the writer's observations during a period of twenty or more years, in his opinion the two primary causes of hunting accidents are GREED AND CARELESSNESS.

When these elements are removed the solution to the problem will have been found. Examining hunters will not gain the objective of diminishing or removing the two primary causes. Intensive training and safety education, especially among the youngsters, seem to be the only sound remedy that is currently available. ♦ ♦ ♦

COMMENTS By SETH GORDON *

THE AUTHOR OF THE FOREGOING PAPER is exceptionally well qualified to discuss the value of fitness examinations for hunters as a principal medium for the elimination of hunting accidents. During the past nine years, as the designated hearing referee, he has personally conducted hearings in more than 600 cases, involving both fatal and nonfatal accidents. His conclusions have been presented to the Pennsylvania Game Commission for consideration in connection with the revocation of hunting and trapping privileges. He has, therefore, had an exceptional opportunity to analyze the causes of such accidents in Pennsylvania.

Every person who causes an injury to a human being by gunfire or with a bow and arrow while hunting or trapping, or who injures himself by such means, must render a report to the Pennsylvania Game Commission, on forms provided, within seventy-two hours. If such person is physically incapable of making the required report, it becomes the duty of the individual causing the accident to designate an agent to file it for him. These reports are then analyzed by the Chief of the Division of Law Enforcement and hearings scheduled in every case where it is apparent, or appears probable, that carelessness or negligence caused the accident.

The Pennsylvania Game Law contains a number of safety provisions, the most severe of which imposes heavy penalties upon persons who shoot at human beings in mistake for wild creatures. These cases are brought before the local courts, which in turn impose cash penalties, prison sentences, and revoke hunting privileges from one to ten years.

Among the other safety provisions are requirements that (1) hunters must see their game clearly before shooting; (2) no hunter may fire at game while it is on a public highway or across a public highway at an angle that might injure the users thereof; (3) not more than five may hunt in one party for small game; and (4) no shooting may be done within 150 yards of occupied dwellings and outbuildings connected therewith.

These provisions of the Game Law are enforced rigidly because the Pennsylvania Game Commission feels that it owes it to the hunting public to make the field and forests as safe as humanly possible for the users thereof.

In addition to the enforcement of the law, a very intensive safety educational program has been conducted during the past ten years. As a result of these combined efforts the annual number of hunting fatalities in Pennsylvania has been greatly reduced. During the past four seasons these fatalities have been running less than two-thirds of the ten-year average. For some unaccountable reason 41 per cent of the total fatalities during the past decade were self-inflicted, a serious situation which examinations alone would never correct.

This is a subject which all conservationists, and especially conservation officials, organized sportsmen's groups, junior rifle clubs, and others concerned, must give their determined and continuing attention in an effort to bring about drastic reductions in hunting accidents. It is not something "that one can blandly sweep under the kitchen sink and forget." ♦ ♦ ♦

* Executive Director of the Pennsylvania Game Commission.

ANOTHER BOLT-ACTION TARGET PISTOL

By JOHN L. CULL *

AN EXTREMELY ACCURATE and handy pistol can be made from almost any bolt-action single-shot rifle. The illustration shows one I made from a .22 Savage, which shoots better than it can be held for either targets or small game.

Target and small-game pistol made from Savage .22 rifle. Shoots all .22 rim-fire cartridges.

The rifle barrel was first cut down to about seven inches. It was then lathe-tapered to about five-eighths of an inch at the muzzle. This was easily done by holding the breech in the chuck and the muzzle in the tailstock which was thrown slightly off center. The muzzle was then carefully trued and crowned. A slot was filed with a three-cornered file for the front sight, and it was found that the original rear sight was suitable for use in the converted weapon. This rear sight is adjustable for elevation.

A piece of walnut was worked down to form the handle, or stock, and the barrel was inletted till a perfect fit was made. The barrel was secured by a screw up through this stock, using the original screw which attached the rifle barrel to the stock as issued.

The trigger guard was made from a strip of soft steel filed down and bent into shape, held on by a screw at each end of the guard. A fair job of blueing barrel and trigger guard can be done at home, if the workman has facilities; otherwise any gunsmith can do a good job at very small cost.

This little gun shoots well enough to justify a little extra finishing, by checkering the hand grip. It seems to shoot any .22 rim-fire cartridges very well, B.B.'s or C.B.'s being suitable for indoor work, and .22 Long Rifle for more serious shooting at game, targets, etc.

The arm is decidedly muzzle heavy, but personally it is thought to be much more easily aimed and handled than would be the case if the weight were centered further back. ♦ ♦ ♦

* Outdoors Editor, *Rod and Gun in Canada.*

OUTDOOR PISTOL RANGE DESIGNS

MODERN NRA RANGES

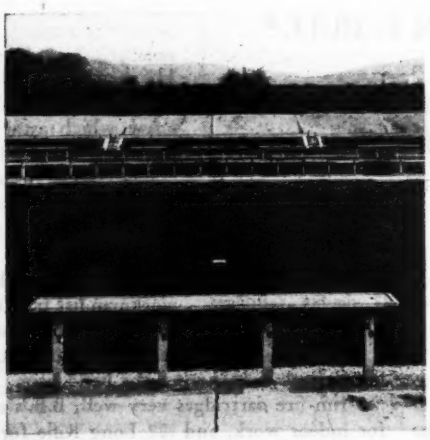
Following the publication in our February, 1945, issue of plans for an up-to-date club house and statistical office, many requests have been received for the working drawings and for additional plans to cover actual range construction of rifle and pistol ranges, both indoor and out.

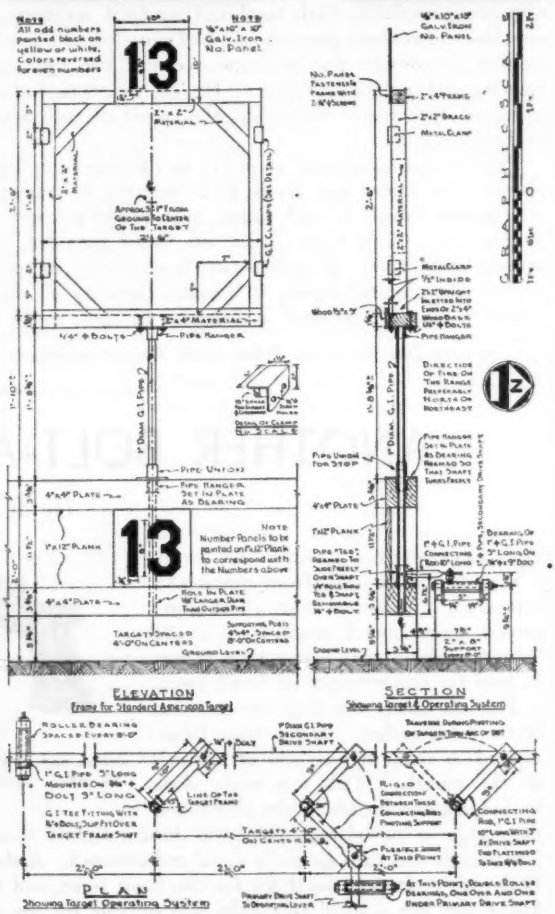
Carrying forward the job started in February, our Range Planning Section has now completed working drawings for an Outdoor Pistol Range.

The drawings include in detail the designs for two basic pistol ranges, each laid out in twenty-target units. The chief differences in the two schemes are in the mechanical design for operating the pivoting targets, the layout of walks, and the designs for shooting tables or stands. Various parts of the two may be combined to achieve layouts suitable to varying conditions and requirements. Included also are schematic designs for several different types of covered firing points.

As in the case of the clubhouse plans, officials of affiliated clubs can, by writing the Association, obtain, free of charge, the complete working drawings for the pistol range. Individuals who are interested in either set of plans can obtain them by sending $1.00 to the Association.

Working drawings are now underway for The Small Bore Outdoor Rifle Range. These will be followed by plans for High-Power Outdoor Ranges, and The Indoor Rifle and Pistol Range. Watch for the announcement in the RIFLEMAN when each of these plans is complete.





Caliber Versus Know-How

(*Continued from page 9*)

wrong place. On the other hand, a bit of careful hunting and stalking, coupled with good accurate shooting, will more than make up for a little less power in your rifle.

I read a lot of complaints about game lost with such rifles as the .250-3000 Savage. Probably more hunters carry a .250-3000 than any of the small calibers, so that considerable game is shot at with them, and of course there is a certain amount of reckless shooting done with them. Yet the .250 is a good deer killer when the bullet is properly placed. I carried one for several years, and killed a good many head of big game with it. My only failures or near failures with this rifle were the results of attempting shots I should have turned down.

I was sitting at the edge of a small opening in a thick stand of jack pines several years ago, when I heard the thump! thump! of a running deer. He came straight toward me; a three-point buck. I raised the .250. He saw the motion and jumped sidewise into the timber, where he stood motionless, trying to make out what I was. Although I could see part of his outline, the only part of him I could see to shoot at was a small spot just back of the short ribs. I was foolish enough and inexperienced enough to take a shot at that spot. I hit it, all right, and away went the buck.

Then I made another mistake. Instead of waiting for him to lie down and stiffen up, I took right out after him. He went only about 200 yards before lying down, but I was following him so fast that I jumped him without seeing him. Another hunter took a shot at him as he ran past; he really took off. I stuck to the trail for half a mile; it began to rain. The rain washed out all sign, and I had to give up.

Another time, I hit another buck in about the same place, but managed to track him down and get him. I had hunted three days without getting anything that year, and I was getting a little anxious—which is my excuse for trying a shot I had no business to try. Walking along on the side of a gulch one morning, I heard a rattling and crashing on the hill across from me. I maneuvered around 'till I could see, through my binoculars, two four-point bucks fighting in a small opening about three quarters of a mile away. I lit out down across the gulch as fast as I could run, because I knew if I could get there before they stopped fighting I could kill one of them easily.

The battle was over when I arrived, but yonder, through the trees, I saw the sun flash on horns. He was only sixty or seventy yards away, but all I could see of him was his hind legs and his belly line. The rest of him was covered by a thick pine bough. I held up into that pine bough about where I thought his ribs were, and cut loose. He jumped and disappeared, and I could hear him running around the hillside, crashing through the brush and down logs.

I waited a while, then started following his tracks. I moved slowly and carefully, but even so I jumped him without knowing it until I found where he had lain. There was a considerable pool of blood in his bed, but none in his tracks where he ran down the hill. It was dry weather, and there were lots of deer tracks, but I studied his tracks carefully and was able to recognize them and keep on his trail.

But it was slow and rather painstaking work. It took me nearly three hours to follow him less than half a mile. Presently I saw him. He was lying in the shade of a big jack pine. He hadn't seen me, so I finished him off with a shot in the head.

I should never have shot at either of those bucks. On the first one, I had to shoot at a nonvital spot; and on the second one, either my judgment as to the location of the vital area was poor, or else the bullet was deflected by the pine bough. Anyway, I hit him too far back. In both cases I should have waited for a better shot.

Not even an elephant rifle can be depended upon to kill big game quickly with shots such as these. On the other hand, deer can be easily killed with light rifles by the artless expedient of shooting them in the right place.

One fall a hunter staying at our place shot at a buck with a .35 Remington. For one reason or another, the buck was hit in the hind leg, breaking the bone about four inches above the hock joint. This was late in the evening and it was too dark to trail the buck that night. Next morning, my uncle, Jack Smillie, went out with the hunter to try and find the buck. All the rifles on the place were in use except a .22 Hornet, so Uncle Jack took that. They had trailed the deer about half a mile when suddenly he got up out of the sagebrush sixty or seventy yards ahead. As he wheeled to run, Uncle Jack threw the Hornet to his shoulder and took a quick shot. The forty-six-grain bullet hit him right behind the shoulder blade, and he ran only about thirty yards before piling up, stone dead. The little bullet through the lung cavity was considerably more effective than the big slug through the leg!

I once saw a big bull elk that was killed with a .22 Hornet. The fellow who shot him was sitting on a little point and the bull was coming along the bottom of the creek which ran past the point. The Hornet was equipped with a telescope sight, and was perfectly sighted in, so the hunter knew he could hit right where he held. He waited till the elk was right below him and about sixty yards away, then held a bit high behind the shoulder. The bull ran on up the creek thirty or forty yards, then milled around in circles for a few seconds, and collapsed. By the time the hunter got to him, he was dead. Sure, the .22 Hornet is far too small to be an elk or deer rifle, but it *does* show what a properly placed bullet can do.

I once shot a bull elk with a .220. He was walking across a park, broadside to me, about 175 yards away. I held low behind the shoulder. At the shot, he wheeled and ran. I quickly pumped in another shell and shot at him again as he ran. He disappeared in the timber, and I hurried up there to track him down. But I didn't have to do any tracking. He was lying dead within thirty-five yards of where I had first shot him. The first bullet had burst his heart wide open, and the second, striking a bit farther back as he ran, had torn a big hole through his liver. I figure he could not have been killed much quicker with any rifle.

That evening, I was talking to a fellow who had hunted that same country with a .30-30 lever-action Winchester. He told me he had been sitting in the edge of a small park when a bull elk had walked out into the open only about fifty yards

away. He said he held back of the shoulder and shot, and the bull jumped and ran out of sight.

"I don't see how I missed him at that distance," he complained, "but I must have. He just ran off into the timber."

"Didn't you follow him?" I explained.

"Why, no," he replied. "He didn't fall, so I must have missed him. No use following him when he wasn't hit."

Of course, I don't know whether he hit the bull or not; but it does seem incredible that he could have missed completely anything as big as a bull elk at fifty yards. The chances are that he did make a hit, and that the bull was lying dead only a few yards back in the timber.

That is the sort of thing all hunters must look out for. Don't think you have missed just because the animal doesn't drop. Sometimes an animal will show hardly any sign of even a fatal hit. So don't take chances. Look very carefully before going on. You can nearly always find the exact spot where the animal stood when you fired, by the sharply dug tracks made by his first jump. Having located the spot, look around for hair, small bits of flesh or bone, or blood. Even if none is found, follow the tracks at least a short distance, watching closely for specks of blood. If there is hair or blood or any other evidence of a hit, always follow your game as far as you possibly can. If your shot was reasonably well placed, you won't have very far to go. He will be dead, usually within a hundred yards. If the shot was poorly placed, you may have to follow him as much as a mile before he gets sick enough to lie down. Considerable care is necessary in following wounded game, so as to get in another shot. When tracking a cripple, any kind of a shot that is possible should be tried, because when an animal is already shot once, any kind of a hit may stop him.

Pay more attention to your stalking, and to the accuracy of your shooting, and you will find that most any reasonably high-powered rifle, loaded with expanding bullets, will do its part, if you do yours.

Don't shoot at anything until you can see plainly just what it is. Then, if it is something you want to kill, look around for something to use for a rest. Get into the steadiest position possible. Shoot offhand only as a last resort, and then only if the game is close.

Learn the trajectory tables of your rifle (obtainable from any of the arms or ammunition companies) so that you will know how to hold for different ranges. And remember that the remaining velocity of any cartridge is considerably less at 300 yards than it is at the muzzle, so don't try shooting at big game at long ranges unless you are equipped with a truly long-range rifle. Much game is crippled, even with large rifles by trying to make kills at unreasonably long distances.

All hunters have their pet rifles, of one sort or another. Not all of them can afford to buy bigger ones, and not all of them would if they could. But they can all learn to shoot better with the ones they have. And they can learn to do a better job of hunting and stalking, and of tracking down wounded game. If all hunters will do the best they possibly can with what they have, there will be far less wounded and lost game, without having to buy bigger and still bigger rifles. ♦ ♦ ♦

Quick Draw Applied

(*Continued from page* 13)

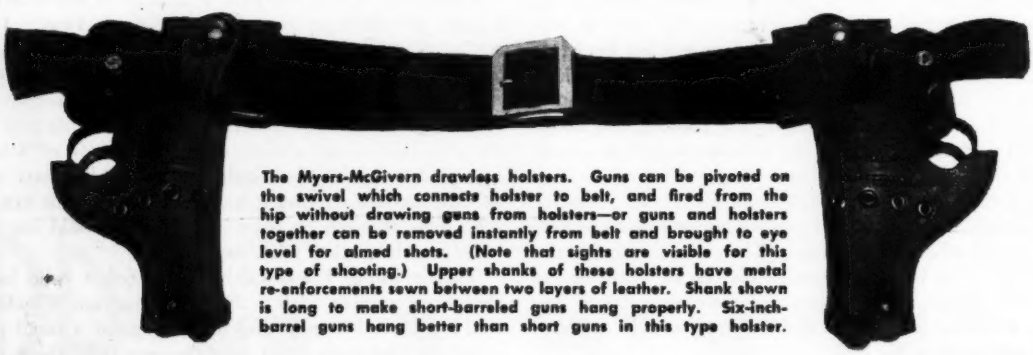
Suspender holsters, worn near belt level, are fast and require about the same hand movement as does the cross draw, provided such holsters are not covered by buttoned garments, or garments otherwise fastened over them. Coats or vests can be worn without greatly diminishing the speed of the draw provided they are worn loose (i. e., unfastened).

Shoulder holsters, too, can produce surprisingly fast results. In fact, almost any combination of gun and holster can be worked into fast-draw-and-hit results by sensible study and persistent practice. But just owning any certain gun-and-holster combination (no matter how good a combination it may be) won't make a quick-draw artist! Quick draw, like other skills, requires sincere effort and study—and regular periods of practice. Frequent repetition of the movements required is essential to the development of smooth, fast operation, positive pointing, and sure-hitting ability.

But those are things within the reach of all. Our class members of all ages from thirteen to seventy have easily and very successfully mastered the techniques involved. There are no "mysteries"—no difficulties that cannot be overcome by persistent effort along common-sense channels. Quick draw is no more "miraculous" than the swift movement of a musician's fingers on a violin or piano. Superspeed accuracy is no more impossible than the accuracy with which those same fingers hit the proper key on an accustomed instrument.

It's all in the know-how, practically applied, combined with persistent practice. ♦ ♦ ♦

Unless otherwise stated, all the shooting described or pictured in this article was done by double-action operation of Smith & Wesson K-22 revolvers.



The Myers-McGivern drawless holsters. Guns can be pivoted on the swivel which connects holster to belt, and fired from the hip without drawing guns from holsters—or guns and holsters together can be removed instantly from belt and brought to eye level for aimed shots. (Note that sights are visible for this type of shooting.) Upper shanks of these holsters have metal re-enforcements sewn between two layers of leather. Shank shown is long to make short-barreled guns hang properly. Six-inch-barrel guns hang better than short guns in this type holster.

GUNSMITHING KINKS

By T. R. GRAHAM

TO DRILL HARD STEEL, use a carbon-steel drill, not high-speed steel. Heat just enough to melt sealing wax and form a ball of wax on point of drill. Then heat to medium red (about the color of ripe sour cherry) and plunge into saturated solution of table salt. Have the brine cold. A few ice cubes added to the brine will give a harder case. This must be done *after* each grinding as case is very thin.

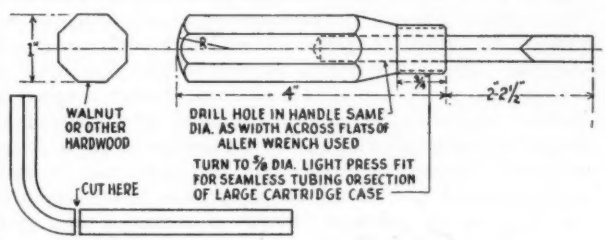
Metallurgists and heat-treat experts tell me this does not do any good, but it works. My guess is that the steel absorbs carbon from the wax, and thus makes for a high carbon content in the surface of the steel. Run the drill slowly and lubricate with genuine spirits of turpentine. It will drill steel up to 60 Rockwell "C."

Or, better still, make a farmer drill from carbon-steel drill rod or piano wire, and heat treat it as above.

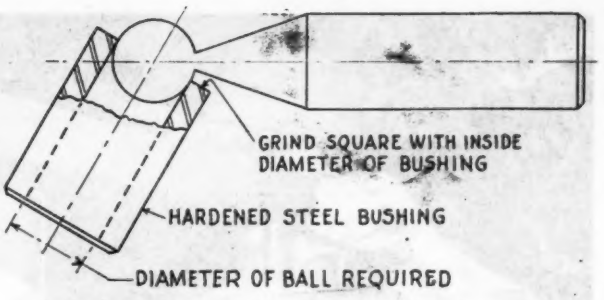
To get a tool to cut smoothly in steel, use equal parts genuine turpentine and lard oil, with enough pure white lead to make it like light cream. If you have no lard oil when tapping steel, cooking lard works just as well. Do not try to use vegetable oils or fats. Lubricating oil is worse than nothing. If you do not have lard oil or lard, soapy water will work.

Use kerosene for machining aluminum. A small quantity of lard oil will improve its action.

Allen safety setscrew wrenches make fine screw drivers. Cut off all of the long straight section, as they come "L" shaped. Grind blade to shape, being careful to avoid heating enough to cause color. You should have at least three thicknesses of blades for each width, as a blade which fits the slot properly will prevent burring. Make a handle of hardwood, octagon shape, one inch on a side and four inches long, like drawing. Walnut makes the nicest handles. Drill hole same size as across the flats of the Allen wrench, deep enough to let two or two and a half inches of the blade extend. Drive seamless tubing or a section of a large cartridge case in place. Drive blade in place and it will stand all the torque you can put on it without turning in the handle. If you have a friend working in a machine shop, he will probably give you a handful of Allen wrenches; or you can purchase them for a few cents each.


1"
WALNUT OR OTHER HARDWOOD
4"
DRILL HOLE IN HANDLE SAME DIA. AS WIDTH ACROSS FLATS OF ALLEN WRENCH USED
3/8
2-2½"
TURN TO 5/8 DIA. LIGHT PRESS FIT FOR SEAMLESS TUBING OR SECTION OF LARGE CARTRIDGE CASE
CUT HERE

Allen safety setscrew wrenches can be turned into fine screw drivers.



With practice, you can turn a ball round to within .001 of an inch.

Cold water is fine for dissolving rust. Scour with steel wool or emery cloth, and then wash in hot soapy water, dry, and oil.

The job of making a sphere or ball, for use on the end of a bolt handle, sling swivels, or round mould cherries, et cetera, is a simple task when these instructions are followed. Turn ball to an approximate size, leaving about .03 stock for finishing. Make or select a hardened steel bushing, the exact size of the ball desired. This bushing will act as the former for the ball. One end of the bushing should be ground until a sharp edge is formed with the hole, as in the accompanying sketch. Have the work rotating and apply the bushing against it, oscillating the bushing from side to side, and at the same time apply cutting oil with a small brush. Turn until bushing slips over the ball. With a little practice you can produce a ball round to within .001 inch.

A simple way to start checkering a stock is to lay out the design on thin, tough paper and then paste it in place. All the lines should be drawn on the paper. After the correct design has been decided on and fixed in place, prick the stock through the paper at the end of each line with a scriber. Next, join the prick marks by laying a thin piece of flexible steel on the stock and scribe the lines that will correspond to the desired design. Then proceed in the usual manner, starting in the center and working out. The use of the paper design entails more work than the expert would find necessary, but it is well worth while to the amateur. ♦ ♦ ♦

HUNTERS' MILLIONS

OVER SEVEN AND A HALF MILLION HUNTERS spent over thirteen and a half million dollars for hunting licenses alone during the season of 1943-44. To be exact 7,505,258 hunters dug down into their jeans to the tune of $13,547,152 just for the privilege of hunting in their respective states. This means that fewer hunters, 585,929 fewer, paid $51,271 less for this purpose than they did the year before.

Michigan had more hunters but Pennsylvania hunters paid more into the till than those of any other state. Michigan's 732,479 hunters topped the list in numbers, with New York second with 589,864. But while Pennsylvania's 582,242 hunters only rated third in numbers they came in first in number of dollars spent. Their $1,367,473 topped Michigan's $1,104,410 and New York's $821,706.

Two hundred and fifteen thousand, nine hundred and one fewer duck hunters were in the marshes last year than were there the year before. And by just that number was the income for waterfowl restoration reduced in dollars. But the one million, one hundred sixty-four thousand, one hundred ninety-one duck hunters who did purchase "duck stamps" put just exactly that many dollars into the work of protecting and perpetuating the wildfowl of the country and the continent. ♦ ♦ ♦

Official U. S. Army Ordnance photos here and on opposite page show the recoilless rifles in use. At left, the 57 mm. weapon being fired from the shoulder. Below, the same weapon being fired on its monopod rest on the ground.

RECOILLESS RIFLES

By LT. COLONEL B. B. ABRAMS

WHEN THE GOING GETS TOUGH in combat, it no longer will be necessary for the infantry to call frantically back for artillery support. From now on, any doughboy in the U. S. Army can step up and be his own artilleryman. This results from development of recoilless artillery by the U. S. Army Ordnance Department. There are two types now used in combat by the Army: the 57 mm. and the 75 mm. rifles.

Probably the first portable artillery piece that could be fired from the shoulder was the Rocket Launcher, popularly known as the "Bazooka." Exploits of the American soldier and his "Bazooka" during the 1942 invasion of North Africa are now legend. However, this weapon has limitations in range and fire power. The recoilless rifle overcomes these limitations and embodies all the desired features of conventional artillery plus extreme portability.

The 57 mm. rifle may be fired from an accessory bipod, from the Caliber .30 Machine Gun bipod, or from the shoulder in a standing, kneeling, or sitting position. These positions are approximately the same as the corresponding positions for firing the .30 caliber rifle. When fired from the shoulder, there is no "kick." This 57 mm. rifle is air-cooled, has a manually operated breech mechanism, a percussion-type firing mechanism, is single loading, and uses fixed ammunition. It is a true artillery piece.

Weighing only forty-five pounds when ready for firing from the shoulder, the 57 mm. rifle is 61.5 inches long and fires a three-pound high-explosive or chemical shell a distance of 4,300 yards with a muzzle velocity of 1,200 feet per second. It has a maximum rate of fire of fifteen rounds per minute.

The 75 mm. rifle possesses the portable features of the 57 mm. rifle, but was designed to be fired from the Caliber .30 Machine Gun mount. It is not a shoulder weapon. It weighs 105 pounds, is eighty inches in length, and fires a fourteen-pound high-explosive or chemical shell a maximum distance of about 7,200 yards, with a muzzle velocity of 1,000 feet per second.

Both weapons have rifled bores with a right-hand twist, the rifling of the 57 mm. gun being one turn in twenty-five calibers. They can be fired with great accuracy, as both are equipped with telescopic sights. The scope provided for the 57 mm. rifle is a 2.8-power instrument having a field of view of 7 degrees 30 minutes. The sight for the 75 mm. gun is a fixed-focus, three-power instrument, and has a field of view of 11 degrees and 30 minutes. Direct laying is the usual method of sighting the guns, although indirect fire may be employed with both guns. In the latter case, sighting is about the same as that used when employing indirect firing, with the Browning Machine Gun, caliber .30.

As to the recoilless characteristics of the two rifles: Equal and opposite forces are set up within the chamber upon ignition of the propelling charge. The forward motion created by the expanding gases forces the projectile forward through the tube of the rifle. The force acting to the rear, which causes recoil in conventional weapons, is allowed to escape through openings in a choke ring in the breech of the recoilless rifle. This choke ring is adjustable, allowing the correct amount of gas to escape so that the forces acting to the front and to the rear are equal and compensating. The gas-escape openings in the breech of the rifle serve the additional function of exerting a force equal

	Weight	Length	Muzzle Velocity	Maximum Range
M1 Rifle, Cal. .30	9.5 lb.	43.6 in.	2805 f.s.*	3460 yds.*
Rocket Launcher M1A1 (Bazooka)	13.26 lb.	54.5 in.	265 f.s.	700 yds.
57 mm. Rifle (Recoilless)	44.4 lb.	61.6 in.	1200 f.s.	4300 yds.
75 mm. Rifle (Recoilless)	105 lb.	80 in.	1000 f.s.	7200 yds.
75 mm. Tank Gun M2	783 lb.	91.75 in.	1970 f.s.	13,300 yds.

* M2 Ball Cartridge.

Chart compares the new recoilless rifles with other infantry weapons.

and opposite to the torque caused by the projectile as it passes through the riflings, and thus prevents the weapon from turning.

Personnel must never stand directly behind the breech of the recoilless rifle because of the extensive breech blast when the weapon is fired. The danger zone is a triangular area about fifty feet to the rear of the breech and extending to twenty-five feet on each side of the rifle. The blast of the rifle will throw up particles for a distance of 100 feet behind the gun. The flash, smoke, and dust created by the breech blast render concealment of the weapon difficult, particularly at night and with direct firing. When used for indirect firing, smoke may be used effectively to conceal the emplacement. Natural or artificial foliage used as camouflage probably will be destroyed by the blast.

Ammunition used with the recoilless rifles may be identified readily by the perforated cartridge case, distinctive of this type of ammunition. A round is loaded into the weapon as a unit and consists of a primer and a fixed propelling charge. Both guns fire either a high-explosive bursting charge, or a high-explosive antitank projectile. Chemical shells employed with the rifles may contain a smoke or incendiary filler or a combination of both, or may contain an irritant.

Although the recoilless rifles may be used as defensive weapons, they were designed principally for offensive action where great mobility is required against definite targets such as pill boxes, gun emplacements, and personnel. They are better adapted to direct than to indirect firing. When used defensively, they are most valuable in neutralizing armored vehicles.

Recoilless rifles were used against the Germans early in the spring of 1945, and were especially well adapted for use by airborne units because of their light weight and simplicity of operation. During one airborne operation on the Rhine River in March, 1945, two rounds from a 75 mm. recoilless rifle knocked out two German 88's and two 20 mm. guns concealed in a building. Both 88's were destroyed and about one hundred Germans captured.

The 75 mm. recoilless rifle. Note distinctive appearance of the shell.

In the Pacific war the recoilless guns have been of inestimable value, particularly in blasting the Japanese from caves and bunkers, and in bringing fire to bear against the enemy from sites where it would be impossible to transport and emplace the conventional type of artillery.

The 57 mm. gun weighs about fifty-five pounds complete with accessories and can be carried by one man for short distances, or by two men over long distances. The 75 mm. gun weighs about 166 pounds complete with mount and sighting instruments and is carried by five men. Compare these weights with the weight of the smallest type of conventional field artillery, weighing over a ton, in use by the United States Army.

Both types of recoilless rifles are usually fired by a two-man team consisting of a gunner, who actually fires the gun, and an assistant gunner who loads the ammunition. However, it is possible for one man to operate the 57 mm. gun by himself. The 57 mm. rifle is used by the special weapons section of a rifle company, and the 75 mm. rifle is included in the gun platoon of a heavy weapons company of the infantry. The squad leader selects the emplacement for the rifle, designates the target, and controls the firing. The gunner aligns the sights and fires the piece, and is responsible for the maintenance of the weapon. The assistant gunner opens the breech and inserts the projectile, and removes the empty cartridge case after firing. There are two ammunition bearers for the 57 mm. gun, and four ammunition bearers for the 75 mm. gun, who are responsible for an adequate supply of ammunition at all times.

The doughboys claim that recoilless rifles are as accurate as the M1 rifle and can easily hit a tank at ranges of from 600 to 1,000 yards. They also advise against using the 57 mm. rifle for hunting any wild game other than Japs! A hunter armed with this weapon has no difficulty in hitting his target, but there is nothing left of the target to take home! ◆ ◆ ◆

VETERANS SAY HIGH SCHOOL RIFLE TRAINING PAYS OFF

BRIGADIER GENERAL ARTHUR G. TRUDEAU, Acting Director of Military Training for the U. S. War Department, indicates the value of preinduction marksmanship training in an article in the May issue of *Ohio Schools*. In that article General Trudeau points out the results of a survey made among a group of service men. Questionnaires were sent to 3,000 soldiers, chosen at random from the graduates of academic and vocational high schools in different parts of the country. Twenty subjects bearing directly on the life and duties of the soldier were listed and an effort made to see what percentage of the men had taken these courses in school and what percentage found such training to be of value in their Army service.

Forty-two per cent indicated they had received rifle marksmanship training. BUT—93 per cent of those veterans stated that this training was valuable to them after they donned their uniforms. That high figure was outranked by only two other subjects: 97 per cent for Fundamentals of Mechanics (it's a mechanized war) and 95 per cent for Physical Education (it's a tough war). Rifle Marksmanship well outranked all other subjects in the veterans' opinions.

General Trudeau stated, "It is assumed that most of those who took rifle marksmanship were enrolled in R. O. T. C. in high schools, although some probably obtained it through NRA Clubs. The large percentage finding such training of value would seem to indicate the desirability of organizing NRA Clubs in other schools where it is practicable." ◆ ◆ ◆

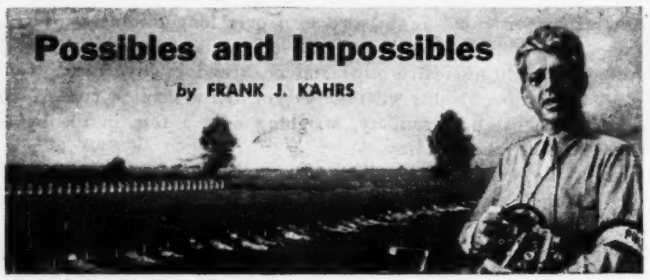
A PAPER FOR PEOPLE WHO SHOOT

Rifle

Remingt

VOL. 8, NO. 9

BRIDGEPORT, CONNE[illegible]T, SE



I'M GLAD to see the interest in rifle shooting in the American Legion. It wouldn't surprise us to see a lot of new clubs and individual marksmen in the Legion after the boys get back home and get their feet on the ground again. The juniors are also very active; that is the sons of Legionnaires. According to our way of thinking, things are pretty well organized in the Legion to keep the spirit of marksmanship alive.

* * *

The other day we received an application from a rifleman in San Gabriel, California, for a 10X brassard to which he was entitled by virtue of having scored the 10X in an Intra-Club Shoot of the local rifle and revolver club at 100 yards in a regular scheduled match.

The most interesting thing about this was the fact that it was regular Remington 22's with Kleanbore priming. Hark ye, gentlemen, to this good news! What has been done may be done again, or words to that effect.

* * *

The demand for the Currier & Ives prints continues unabated. Incidentally, quite a few requests have come from Merrie England. A friend of ours over there, a member of many clubs, said that the "old boys" I saw shooting in the back position when I was in Bisley in 1937, would be members of the English, Scottish or Irish VIII Clubs. They only use 900, 1000 and 1100 yard ranges. They generally use head-locking Mauser or Mannlicher actions with long barrels and rarely get worse scores than a very occasional inner. Much experimental data, he says, regarding streamlined bullets and high charges has been obtained from their scores.

He also went on to say that I would be interested in knowing that the Regiment in which he was serving in 1926 (Queen's Westminsters and Civil Service Rifles) had a great match at Bisley for the Sir Howard Vincent Shield against the 7th National Guard of New York City (107th Regiment). The conditions called for the military rifle of the country participating. In our case, it was the Springfield and target sights. The British used S.M.L.E. with target sights. Conditions were 15 shots at 500, 600, 900 and 1000 yards. He says they were beaten, but not *too* badly, by 99 points, and he thought it was due to the fact that we used more accurate rifles and ammunition and also, to a very large extent, the fact that we were trained to get our shots away "immediately," our coach had called the wind. We happen to know it's very tricky on the Bisley range.

He closed by saying that the social aftermath of the match, the wining and dining, is still a great memory. My friend is a Captain in the Royal Fusiliers.

* * *

A chap from Louisiana wrote in the other day for a set of the Currier & Ives prints stating that he wanted these showing the following positions:

"Squatters," "Gun-Wigglers," "Gun-canters," "Shoulder-Snugglers."

* * *

We were able to get out for the first time recently and do a bit of small boring on our own 50-yard range up at the farm. It was one of those days especially made for shooting or testing guns and ammunition, so we got out the pet 37 with 10 power scope and several boxes of different kinds of .22's, including regular Kleanbore, Palma Kleanbore, Targetmaster and Peters High Velocity, and started in.

They all shot well and considering the fact that most of the stuff was two years old or better, I would say some of it was quite remarkable, and that brings me to the point.

The Peters High Velocity grouped the closest of all the ammunition we shot, and we only fired a 10-shot group which scored 100—9X, believe it or not!

RETURNED VE[illegible]
RANKS OF[illegible]

RETURNING SERVICEMEN PRAISE PRE-INDUCTION RIFLE TRAINING

CROSSTOWN, U.S.A., September, 1945. From all over the world come stories of the deadliness of American marksmanship. And thousands of vets pouring back into the country say that a lot of credit for their accuracy is due to the pre-induction rifle training program. These men have been through some of the bloodiest battles in history and their very survival is due, in part at least, to their ability to outshoot the enemy. The experienced marksmen, most of whom are NRA members, who gave their time to the pre-induction rifle training program, have just reason for swelling with pride. For they have made a valuable contribution to the preservation of democracy.

SERVICEMEN ON FUR[illegible]LOUGH FIND RECREATIO[illegible] AT RIFLE RANGES

CENTERVILLE, U.S.A., Sep[illegible]tember, 1945. Members of th[illegible] armed forces who have bee[illegible] in service for a while reall[illegible] appreciate the value of [illegible] thirty-day furlough. Bu[illegible] when they've been home fo[illegible] a few days and the novelty ha[illegible] worn away, these men woul[illegible] enjoy getting out on a rif[illegible] range and doing a little shoot[illegible]ing. Some clubs already hav[illegible] taken note of this and hav[illegible] extended invitations to them[illegible] use their ranges at any time[illegible]

Maintaining close contact[illegible] with rifle enthusiasts who are[illegible] still in uniform also is an effec[illegible]tive way to help build up mem[illegible]bership when these men return[illegible] to civilian life.

AROUND OUR CLUB . . . . *The "Ex-G. I."*

Oh him! He just got back from the South Pacific!

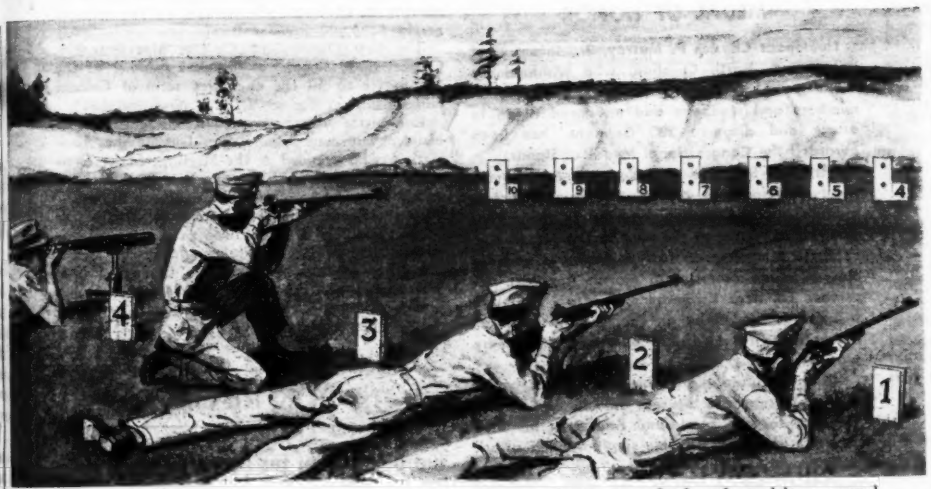
emington News

CONNECTICUT, SEPTEMBER, 1945

FREE: To Readers of American Rifleman

WEATHER:
STILL PLENTY OF GOOD OUTDOOR SHOOTING DAYS LEFT

VETS SWELL MEMBERSHIP OF RIFLE AND PISTOL CLUBS



YOUR RIFLE RANGE offers splendid opportunities for servicemen on furlough and is a grand place for discharged vets to spend their recreational time. Former servicemen are the largest source of potential members for your club.

MIDDLETOWN, U. S. A., September, 1945. Wide-awake rifle clubs throughout the country are watching for every opportunity to invite returned servicemen to join their clubs and take part in all regular shooting activities.

Many of these veterans are former members of rifle clubs and wish to take up their rifle shooting activities where they left off on entering the service. Others are men who, during their years of service with the armed forces, have acquired a knowledge of firearms and a skill in shooting. They are excellent prospects for membership in local rifle and pistol clubs.

Membership committees of successful clubs are discussing the enrollment of returned servicemen and shooting programs are being planned especially to interest these new or returned members. In many cases veterans are taking an active part on membership and program committees.

Reports from rifle and pistol clubs show that a great many returned servicemen have an active interest in getting out on the range and doing some target shooting. Many clubs recognize this and are conducting drives to enroll these men in the membership ranks of their clubs. Thus the clubs are able to restore their depleted membership ranks to some extent, and at the same time offer ex-servicemen an opportunity for outdoor recreation.

REMINGTON AMMO WITH "KLEANBORE" PRIMING KEEPS RIFLE BARRELS CLEAN

BRIDGEPORT, CONN., September, 1945. The Remington cartridges that are being used today are made with the same exacting precision and the same standard of quality as before the war. The exclusive Kleanbore priming keeps the bore of rifle barrels bright and clean—so that you do not have to clean your gun.

It is hoped that the time will not be far off when Remington match ammunition again will be available. When it is, shooters can once more enjoy the thrill of using Remington Targetmaster or Palma Kleanbore for X-ring accuracy.

Kleanbore, Palma and Targetmaster are Reg. U.S. Pat. Off. by Remington Arms Company, Inc., Bridgeport 2, Conn.

CLUBS INVITE EX-"G.I.s" THROUGH LEGION POSTS

MIDDLETOWN, U.S.A., September, 1945. Reports from several sources show that one of the best ways to reach ex-servicemen who are interested in joining rifle clubs is to establish contact through the American Legion, VFW, Veterans' Advisory Committee, or other Veterans' Associations.

Most of these organizations are willing to cooperate in helping veterans find the recreational outlets they want, and are glad to help your club secretary follow up contacts. It is suggested that your secretary or other representative plan to be at one of your local Legion meetings to invite all who want to join. You may be surprised at the response.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

CORRECTION

When we received Leo Stoutsenberger's story, "Clay Pigeons That Shoot Back," (July, 1945, RIFLEMAN), we asked Army Air Forces for color pictures of the inside waist section of B 24 Liberator bombers. We got a picture purporting to be just that. We used it on our July cover. . . . It was a fine picture, and it made a handsome cover. But it was not a picture of the waist section of a B 24 Liberator!

As soon as the July issue appeared, Leo Stoutsenberger phoned us. "That's a swell cover, but it was taken in a B 17 Fortress, not in a Lib. However," he went on to say, "a guy would have to know both ships well to spot it. I did because I trained in Forts and fought in Libs. But I doubt that you'll get any complaints."

Leo underestimated RIFLEMAN readers. We got no less than a dozen letters, some indignant, most of them willing to forgive our groundsmen's ignorance. To those readers, and to Fortress and Liberator crews everywhere, apologies.

(But nobody called our attention to the glaring blunder we made, with no assistance from Army Air Forces or anyone else, in the text of that story. We had German AA batteries firing 200 mm. guns! They weren't *that* big; but Stoutsenberger says, "They were big enough!")

ATOMIC ALIBI

Best excuse ever offered for absence from a meeting of an NRA Executive Committee was that given by Rear Admiral William R. Purnell, NRA Director, for his failure to attend the Executive Committee meeting last July 28th. Admiral Purnell "regretted his inability to attend, due to absence from Washington on a special mission." That mission, we now learn, was to act as one of the high-ranking observers of the first use of the atomic bomb, at Hiroshima.

FOUR POSITIONS AND 'SCOPES IN BRITAIN

Our British friends have started their first small-bore "off the ground" competition with an entry of forty teams in a league which will fire sitting, kneeling, and standing.

There is no doubt that much of the stress on prone shooting among American small-bore riflemen has been due to the fact that the International Dewar and Pershing Matches have been fired in only the prone position.

With the development of three- and four-position matches in Britain and the probability that Internationals will eventually develop along three- or four-position lines, outdoor position shooting will no doubt become as popular in America as indoor three- and four-position programs have been for years.

Preliminary plans for the British National Matches at Bisley also indicate a definite trend toward American practices. Entry fees are to be halved and money prizes eliminated. As at Camp Perry, those competitors who wish to shoot for money will pay an additional entry fee which will then be divided as money prizes only among those who have "played the option." Of even greater interest is the plan to program matches for telescopic sights mounted on service-type rifles, i.e. "sniper" equipment. Scope sights have been so common on American firing lines that most of our shooters will be surprised to learn that they have been generally taboo in British competition. Perhaps a scope-sighted "sniper-rifle" International Match may add another attraction to the shooting game in the not-too-distant future!

NRA MEMBERS MEETING

The Annual Business Meeting of the Members of the NRA will be held at the Hotel Statler, Washington, D. C., on Friday, November 9th, 1945, at 8 p.m. Purpose of the Meeting is the election of twenty Directors and the transaction of such other business as may properly be presented. All members of the Association have the privilege of the floor; life and endowment members may vote.

A Nominating Committee, appointed by the President will meet prior to the Members' Meeting to select a slate of twenty life or endowment members to be voted on as Directors at the November Meeting of the Members. The names of these nominees will be published in THE AMERICAN RIFLEMAN for October. Additional nominations may, of course, be made from the floor.

MEDAL OF HONOR

Lieutenant Charles P. Murray, Jr., Infantry, of Wilmington, North Carolina, who withheld his battle patrol because of enemy superiority in numbers and weapons and advanced alone to attack and disperse 200 Germans, has been awarded the Congressional Medal of Honor.

With rifle fire, rifle grenades, and BAR bursts, the twenty-four-year-old infantry company commander in the 30th Regiment, 3d Infantry Division, killed twenty of the elite SS German troops, captured ten others in foxhole positions and destroyed many others with mortar fire, last December 16, near Kayserberg, France. Although seriously wounded by an enemy hand grenade, he continued forward until the rout of the enemy was complete.

"Though suffering and bleeding profusely, he refused to return to the rear until he had chosen the spot for the block and had seen his men correctly deployed. By his single-handed attack on an overwhelming force and by his intrepid and heroic fighting, Lieutenant Murray stopped a counterattack, established an advance position against formidable odds, and provided an inspiring example for the men of his command."

(Lieutenant Murray received his first instruction in rifle marksmanship in a series of training programs and matches conducted in Wilmington several years ago by NRA Senior Instructor Edmund McLaurin and Sgt. Russell E. Smith.—Editor.)

GENERAL RECKORD DECORATED

Major General Milton A. Reckord, NRA Executive Vice-President, was recently awarded the Bronze Star Medal for meritorious service as provost marshal of the European Theater. As provost marshal, the citation said, his services reflected high credit on himself and the armed forces, and his effective supervision of disciplinary training centers was a major factor in the rehabilitation of general and garrison prisoners.

General Reckord won the Distinguished Service Medal and the *Croix de Guerre* with Palm for combat service in World War I. He was awarded an Oak Leaf Cluster, representing a second award of the Distinguished Service Medal, for his efficient reorganization of the Third Service Command during his duty as Commanding General of the Third Corps Area.

General Reckord is now a member of the War Department General Staff Committee on National Guard and Reserve Policies.

EXECUTIVE COMMITTEE AMENDS PISTOL ALIBI RULE

By action of the NRA Executive Committee which met in Washington on July 28th, alibis occasioned by "disabled guns or defective cartridges" will not be permitted in registered pistol events. This new rule will become effective October 1, 1945. The Committee voted to accept the recommendation of its Pistol Committee, which group, after careful study, reported favorably on amending the pistol rules to eliminate such alibis.

Mr. C. B. Lister, Secretary-Treasurer of the Association, reported continued progress both in increased membership and income, notwithstanding wartime operating difficulties, including restrictions on the use of paper for publishing THE RIFLEMAN. Earnings for the first six months of 1945 were in excess of the corresponding months of 1944 and the Association has invested nearly $200,000 in War Bonds.

The new Director of Civilian Marksmanship, Colonel E. F. Sloan, was elected a member of the Committee to fill the unexpired term of Colonel Gilbert Parker, former D.C.M. now overseas.

Committee members present included Commander Thurman Randle, President of the Association, who presided at the Meeting; Major General M. A. Reckord, Executive Vice-President, recently returned to a special assignment in Washington following eighteen months service as Provost Marshal of the European Theatre; Lieutenant Colonel F. W. Parker, Jr., NRA Vice-President; Mr. Lister; Brigadier General F. M. Waterbury; Mr. Karl Frederick; Colonel F. C. Endicott; Major General Julian S. Hatcher; Captain Thomas Lowery, USMC; Col. E. F. Sloan.

BOOK REVIEW

SHOTGUNNING IN THE LOWLANDS

RAY P. HOLLAND

If you lay any claim to having a sportsman's library you will have to add this book to "Shotgunning In The Uplands," which we talked about so enthusiastically last March.

"Shotgunning In The Lowlands" lacks some of the fine spice of its "Uplands" twin, but this is compensated by a heavier seasoning of outright information. The best placing of blinds and the best kinds of blinds under varying conditions; the flying speeds of ducks; retriever types; leads and loads—on these and other topics close to the heart of the migratory bird hunter, Ray Holland speaks in the forthright Holland manner and from the inexhaustible store of Holland information.

Physically, the book is another remarkable job of wartime bookmaking. It is handsome and rugged. The beautifully printed Lynn Bogue Hunt illustrations—full page and full color—are the best we have seen in many years except those reproduced in "Shotgunning in the Uplands." Christmas gifts for hunters are going to be hard to find this winter. It may not be too early to think about earning the everlasting gratitude of some shooter by acquiring this pair of "Shotgunning" books, to be laid away for the Holiday Season.—C.B.L.

(213 pages, cloth, title stamped in gold with 8 fine full-color Lynn Bogue Hunt illustrations. $7.50. A Countryman Press Book, for sale by NRA Book Department.)

PRACTICAL MARKSMANSHIP

M. M. JOHNSON, JR.

This is a book primarily for the soldier. It contains a lot of good dope not usually found, or not easily found, in the training and field manuals. Unfortunately, it also contains a good deal of superfluous, repetitious material more likely to confuse or tire the reader than to help him to a quick, clear comprehension. Sometimes it is difficult to determine whether the book was intended for the rifleman, the wing shot, the BAR man or the machine gunner. Certainly a book the size of this one could be written to cover "practical marksmanship" for each of these. The attempt to cover all results in generalities and abrupt changes of thought which are likely to prove confusing to many readers.

Out of the deep well of his knowledge and under the pressure of his enthusiasm, information bubbles from Mel Johnson like water from an artesian well. The trouble is that in its rush it spreads hither and yon, crisscrossing and forming often unconnected pools. When he learns to take the time to organize the flow of information into clear channels of thought and co-ordinated pools of fact he will take his proper place as one of America's best writers on guns and ammunition.—C. B. L.

(183 pages, 47 half tones and line cuts. William Morrow & Co. $2.50. For sale through NRA Book Department.)

POT LUCK

ROLAND CLARK

Fourteen years ago, Roland Clark did a little book about the same size as this one. It was called "Stray Shots," and it was illustrated with drypoint etchings. Editorially, it was as fresh and sparkling as the sunlit waters which provided much of its background. Artistically, it was a gem, its dry points moving in every line. Perhaps it is because I have so long relished and cherished that now-out-of-print masterpiece of Roland Clark's that "Pot Luck" proved something of a disappointment. For "Pot Luck" is undoubtedly above the average in copy, art, and format and, if you are trying to build a really high-grade shooter's library, "Pot Luck" should be on your shelves.

It is not a technical book, just a friendly little book of duck shooters' tales. It is a nice little book. If you were never spoiled by acquaintance with "Stray Shots" you may even think that "Pot Luck" is a *great* little book.—C. B. L.

(A Countryman Press Book. $3.50. 101 pages with 6 full-page illustrations in color gravure and 18 crayon sketches by the author. For sale through NRA Book Department.)

AUTOMATIC WEAPONS DESIGN SERIES

Numbers Two and Three of "The Automatic Weapons Design Series" are now available. Number Two, "The Grant Hammond, Savage, and Schouboc .45 Automatic Pistols," is a thirty-six-page pamphlet of text and drawings by Roger Marsh. Number Three, "The Full-Automatic Mauser Pistol, Model of 1932," contains two pages of text and three full-page drawings by George R. Gans.

Good drawings; terse, readable text, bringing together under two slim bindings the pertinent facts about specific arms.—E.B.M.

(Number Two: 36 pages, six by nine inches, profusely illustrated with line drawings. $1.50.)

(Number Three: 8 pages, six by nine inches, line drawings by George R. Gans. Fifty cents. Both for sale by Roger Marsh, Hudson, Ohio.)

COMING EVENTS

California, September 9—Northern California Small Bore Championship, at Richmond. C. DeWitt, 370 Lincoln Avenue, Oakland.

September 14 and October 12—Tamalpais Revolver Club Gallery Pistol, at Alto. Francis Wadman, Route 1, Box 854, Mill Valley.

September 16 and October 21—San Francisco Police Monthly Pistol. E. J. Dutil, 324 16th Avenue, San Francisco.

Georgia, September 23—September Small Bore Rifle. Gabe G. Jarrard, Box 224, Gainesville.

Illinois, September 9—Sheridan Rifle and Pistol Club Pistol, at Deerfield. Robert Billeter, 936 Wade Street, Highland Park.

September 16—Wheaton Small Bore Rifle. W. H. Blase, 408 Western Avenue, Wheaton.

September 30—Illinois State Championship Small Bore, at Wheaton. Thomas H. Blakemore, 5004 West Huron Street, Chicago 44, Illinois.

October 7—Small Bore Rifle, at Deerfield. Robert Billeter, 936 Wade Street, Highland Park.

Indiana, September 9—First Annual "Chief" Match, at Michigan City. J. Y. Murphy, 701 Franklin Street, Michigan City.

September 16—Indiana and Kentucky Open State Pistol Tournament, at Jeffersonville, Indiana. W. C. Watters, 122 West Chestnut, Louisville, Kentucky.

Iowa, September 23—American Legion Post 26 Fourth Annual Pistol, at Bettendorf. Carl Prevratil, 2018 West 10th Street, Davenport.

Louisiana, September 2-3—Sixth Annual Small Bore. C. L. Monnot, 3820 Perrier Street, New Orleans.

Maryland, September 9—The Western Maryland Police Tournament advertised in the August RIFLEMAN has been cancelled by the NRA.

Massachusetts, September 30—Deerfield Valley Small Bore. Richard Bruffee, Shelbourne Falls.

Michigan, September 2—Peach Harvest Small Bore. Ray H. Mongreig, Stevensville, Michigan.

September 9—Small Bore, at Wyandotte. Ervin E. Brehm, 3813 Brewster, Dearborn.

September 23—Ann Arbor Fall Pistol. Captain C. M. Enkeman, Police Department, Ann Arbor.

Missouri, September 23—Greater St. Louis Pistol. Frank Stubits, 5507 Lisette, St. Louis 9.

Ohio, September 30—Ninth Annual Small Bore, at Mt. Healthy. Carrie Foster, 3083 Banning Road, Cincinnati 24.

Pennsylvania, September 2—Thirteenth Annual Lehigh Valley Small Bore. Alfred M. Newhard, 111 East Susquehanna Street, Allentown.

September 2 and 3—Pennsylvania State Small Bore Championship. R. B. Barry, 407 Second Avenue, Altoona.

September 16—Small Bore. E. W. Cook, 926 Orr Avenue, Kittanning.

September 23—Fort Hand Small Bore. George W. Rupp, 1029 Hancock Avenue, Vandergrift.

October 14—Llanerch Rifle Club Small Bore, at Chester. Mary Jane Oster, 2800 Township Line, Llanerch.

South Dakota, September 2—Sioux Rifle Club Small Bore. H. F. Chapman, 504 Security Bank Building, Sioux Falls.

Texas, October 13—Ada Zilker Robinson Small Bore, at Zikler Park. Joe B. Taylor, Police Department, Austin.

Utah, September 2—Small Bore, at Fort Douglas. Obed C. Haycock, 1870 Atkin Avenue, Salt Lake City.

September 23—Pistol, at Fort Douglas. Obed C. Haycock, 1870 Atkin Avenue, Salt Lake City.

West Virginia, September 2 and 3—Eighth Annual Mountain State Pistol. A. M. Springer, P. O. Box 204, Fairmont.

Wisconsin, September 16—Fall Small Bore Rifle, at County Line range. Oliver Moody, 5527 North 35th St., Milwaukee.

STOLEN GUNS

The following serial numbers Colt .45 Automatics, marked Government property, are stolen:

1636209	1640330	1641371	1641477
1639376	1640699	1639790	1637766
1641047	1637953	1637076	1637495
1639530	1640779	1637703	1639528
1640663	1640571	1640822	1640818
1639444	1637705	1641021	1639532
1639611	1640853	1640845	1639888
1638969	1640959	1641051	1639742

Possession of these weapons (or of any Government weapon or material without properly authenticated government bill of sale) is a federal offense. Notify NRA Headquarters or phone your nearest FBI Office.

One Colt Woodsman Match Target, No. 8922, with Roper stocks, King sight, Berdan anti-slap device. Lt. Col. Carlton E. Spencer, 184 North Commercial St., Salem, Oregon.

Colt Woodsman, No. 155606, lost or stolen from the body of my son, an Air Force Sergeant, near Camp Hawkins, Georgia, on July 30. It was a Christmas gift to him and has great sentimental value to me. Will pay liberal reward for information leading to recovery. H. A. McPherson, 712 Chestnut St., Philadelphia 6, Pa.

Arthur D. Strode

This is to report the death of Life Member Arthur D. Strode, of Vancouver, Washington, whose score book closed on March 1.

Arthur Strode was born in Missouri and had lived in Vancouver for the last forty years. He was fifty-six years old. An engineer for the S. P. & S. Railroad, he was retired only last January. He was active in shooting circles for many years and had an extensive collection of rifles, specializing in the Winchester line. Nellie Strode, his wife and shooting companion for many years, died in October of 1942.

Mr. Strode was always a booster of the shooting game and enjoyed an extensive correspondence with other shooters all over the country.

Lt. Col. David S. McDougal

Another of the Marine Corps' outstanding riflemen has paid the supreme price for victory over the Japanese. "Dave" McDougal was killed in action on Okinawa on June fourteenth while serving on the staff of the Commanding General, First Marine Division. He had been transferred only a few days previously from the Staff of the 10th Army.

A graduate of the Naval Academy, Class of 1933, he qualified as a Distinguished Rifleman in 1936 and as a Distinguished Pistol Shot in 1937. He won the Marine Corps' Asiatic Division rifle competition in 1938 and '39, establishing in 1939 the record which still stands for both Division and Marine Corps championships with a score of 578 twice over the National Match course. His score of twenty-five consecutive "V's" in the Crowell Match in 1937 still stands as the record for that match. He was Team Captain and a shooting member of the team that won the Corps' "Elliott Trophy Match" in 1936. An alternate on the 1937 Marine Corps team at the National Matches, he was a firing member of the team that won the National Team Match in 1940.

He was wounded on Guadalcanal in 1942, and again on Cape Gloucester in 1944. He is survived by his wife and two children, the youngest of whom he had never seen; by his parents, Major General (retired) and Mrs. D. C. McDougal; and by his brother, Douglas McDougal, Jr.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

Sectional Chuck Dope · Freebore Comparison · Chronographed Velocities · Trajectory Tests · .22 Loads Checked · Bullet Swaging · Dismounting the Borchardt · Ballistics Dope · Machine Rest Groups · Ocular Prescriptions · Rust Tests · Kinks · New Goods · Letter Digest · Trade Dope.

GROUNDHOG RECORDS. Following publication of Edson Hall's report on Missouri woodchucks, we have received chuck dope from other sections. Mr. Hall sent one of these in, from W. R. Johnson, a Swift shooter, who builds decoy dens in order to attract woodchucks to his own farm, outside of Red Wing, Minnesota. Most of his shooting is under 100 yards; longest range 145 yards. He chose the .220 Swift after seeing the Hornet lose "25 per cent of all chucks hit, because of insufficient killing power." His biggest chuck weighed 10 pounds, 12 ounces, and he has bagged only two that went over 10 pounds. He shoots mature chucks only, and they range from 5½ to 8½ pounds in weight, on the average basis. When they first appear, between April 1 and 25, the best hours are from 11 A.M. to 4 P.M. From June to September, they are out from early morning until 11 A.M. and from 3 P.M. to 6 P.M., excepting cloudy days when they may come out anytime from 7 A.M. until sundown. In the past 6 years, Mr. Johnson has killed about 150 chucks; only 16 up to the end of June this year.

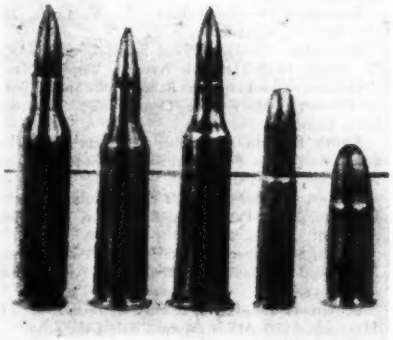
From L. A. DeLong, of Topton, Penna., we learn that chucks in his section get as heavy as 16½ pounds, the heaviest he has shot and weighed. He uses the .220 Swift with factory 48-grain load, and his longest kill was 348 yards, the average being 125 to 175 yards. The shooting season is on during the months of July, August, and September. Last year De Long killed 50, in the evening after work hours.

Lou Brault, of Burlington, Vermont, says their northern chucks run from 8 to 17 pounds in weight. He has seen one freak that topped 18 pounds. He says they get the big ones in late fall, and his theory is that native chucks need more fat in their cold local winters and, consequently, grow bigger than in other sections. Mr. Brault has a Super Grade .257 Roberts that shoots quarter-size groups, at 100 yards, with Barnes 90-grain bullets in Krause reloads. He never shoots a chuck under 100 yards, and says his average kill is 200 yards, with the longest at 435 yards. In northern New York he killed 285 chucks in 1941 and 1942. In northern Vermont, his bag was 124 in 1943 and 1944; 33 kills so far this year. He wrote at the end of May. His luck in cross winds has been much better with the .25 than with the .22, and he thinks his .257 is the ideal chuck rifle.

Neil Dewey, of Union City, Penna., has an unusual record on 400 chucks, most of which were killed with the .22 Long Rifle at short ranges, averaging 45 yards. His shortest range was 3 feet, and his longest, 200 yards. He used Super-X Hollow Points in the M-52 and M-37 rifles. He also used Remington Hollow Points in the 23-D Savage Hornet rifle. Most of the shooting was offhand, or only 12 per cent from rest; 68 per cent was standing, and the remaining 20 per cent from other offhand positions. Only 3 per cent of the hits were paunch shots, and 8 per cent in the spine, 22 per cent being chest and shoulder hits and the remainder, head and neck shots. He said he missed "not too many" and crippled very few.

Any handgun enthusiast would like Neil Dewey's short-range chuck country, and I would like to try my 8¾-inch .357 S.&W. Magnum there. I carried it on a recent visit to Walker Greer's Virginia chuck country and got two 12- to 15-pound chucks, on head and neck shots. That weight represents about the maximum for Maryland and Virginia, excluding occasional exceptions. The biggest Virginia chuck, to our knowledge, weighed a full 18 pounds. On hot days they come out very late in the evening, but usually from 3 P.M. until dark, while strays will appear all day long. The earliest kills on record are for March 15, and the latest, November 14. Even in Ontario, Henry Miller and yours truly found most of them still out during the month of September.

FREEBORE TESTS AND .22 'CATS. The Barr-Nix-Marciante .220-30 (Swift shortened to hold 30 grains No. 4320) gave trajectories with the 55-grain bullet that indicated .220 Swift velocities, or between 3600 and 3750 f.s. After much shooting and considerable wear, with its inevitable reduction of velocity, we sent it with handloads to Roy Weatherby for a freebore test. With 28 grains of No. 3031, the chronograph gave the 55-grain bullet, 3672, 3728, 3599, 3672, and 3621 f.s. muzzle velocity, showing an extreme variation of 129 f.s. With 25.8 grains No. 4198, the 50-grain bullet registered 3789, 3807, 3856, 3759, and 3807 f.s., showing an extreme variation of 97 f.s. Then Weatherby freebored it, for ¾ inch ahead of the chamber, and again chronographed the same loads. The 55-grain bullet now made 3541, 3624, 3672, 3596, and 3580 f.s., showing an average loss of 56 f.s. The 50-grain bullet gave 3698, 3738, 3757, 3754, and 3728 f.s., showing an average loss of 70 f.s. The freebore permits heavier loads, but, with the powder space already filled, the only recourse here would be using heavier bullets, in 60- or 63-grain weight. However, the 55-grain 8S bullet gave the same impacts after freeboring as before, within an inch at 200 yards, a half inch at 300, and well within four inches at 400 yards. The loss was less than one-half of the extreme variation, and therefore not appreciable in practical shooting afield. The 60-grain 8S now shot into 2.16 inches at 100 yards, whereas it had failed to hit the target before freeboring.



FIVE MODIFIED FACTORY CASES

Left to right: Kilbourn .22-.25 Remington, Lindahl Short Zipper, Pfeifer Short Krag, Barr-Marciante version of Oakey .25 Hornet, and Short .38 Special by George W. Spence

We tried some Giannotti R.C.B.S. bullets in the freebored .220-30 at 200 yards, using the fullest accurate load of No. 4198, or 1½ grains under maximum. The 5-shot groups were 2.20 and 2.93 inches with the 55-grain weight and, with the 60-grain, 3.12 and 3.84 inches. The heavy bullet had 4-shot groups of 2.23 and 2.57 inches. Giannotti suggests a new technique of operating the R.C.B.S. equipment, that permits a low-pressure adjustment of the swaging die because it is based upon easy manipulation of the Pacific Reloader handle. He wrote, "Place core and jacket in die and SNAP handle all the way up. Unscrew die head just a fraction, to release air, and bring handle down, then SNAPPING it up again to finish forming the bullet. The whole thing is the speed with which the handle is brought up over center; just like a hammer blow. You will find that there is very little strain on the Pacific frame, pins, and handle".

Paul T. Gebhart, who is in the Service at Fort Knox, wrote us about a ¼-inch armor plate he had sent in some time earlier. Different loads from the .218 Bee had been tried on it at 50 feet, using No. 4198. The smallest indents were made with lead bullets and 14 grains of powder, and the biggest, with the 46-grain hollow-point and 16 to 16.4 grains. Between these diameters were those of indents made by the 41-grain S.P. and the same loads. The biggest indents were also the deepest. But all were shallow, with the exception of one complete perforation obtained with 17 grains behind the 46-grain bullet.

Mark Warkins, of Denver, showed me some nice groups he had made with what he calls, "the first Mashburn Zipper." It is on a Sharps-Borchardt action revamped by Mashburn, with Buhmiller chrome-molybdenum barrel and a fancy Bishop stock fitted and finished by Warkins. He has owned four Swifts and says his new Zipper equals the .220 Swift on targets, varmints, and in comparison tests of relative power and trajectory flatness. His load is 30 grains of either No. 4064 or No. 3031 behind the 55-grain bullet. He says 31 grains of the former powder is also accurate, and he has tried 28 grains of HiVel No. 2 successfully with No. 111 pistol primers.

Hervey Lovell mentions using his short-necked .25-35 in a Tell action and loaded, like his .22 Hi-Power, with 31 grains No. 3031 or 32 grains No. 4064 behind the 50-grain Sisk bullet with No. 115 primers. The latter load proved best in our Lovell HiPower. He says his Improved Zipper requires more powder for the best results. This has a 30-degree shoulder, and .393-inch diameter, against a 24-degree shoulder and .370-inch diameter for the .22 HiPower. Harold Vaughn has one with .227-inch grooves and 12-inch twist, in which he uses 34 grains No. 4320 behind the Sisk 54-grain Wartime bullet. He says he has made a great many kills on crows and chucks with it at 300 yards or over. His next best load is 33 grains of No. 4064 behind the Sisk 63-grain Express, with which he has made inch-groups at 100 yards. He uses .033-inch Ipco wads in all loads. Locally, Bill Corson's I.Z. Lovell has given some nice 5-shot groups with the Sisk 63-grain Express up to 300 yards, and his load is 33 grains of No. 4320. With the impact an inch above aim at 100 yards, this bullet landed .82 inch high

at 200 yards and 5.22 inches low at 300. This Lovell wildcat seems to be about the same thing as the Bluestreak or as the Junior Varminter. We also tried the Lindahl Short Zipper, for a few rounds, with Lindahl's load of 24 grains No. 3031 behind the 50-grain 8S bullet. With the impact an inch high at 100 yards it was one-half inch low at 200 yards, at which range its 6 shots went into 2.75 inches. The 5 shots at 100 yards had a flier, making the total group 1.07 inches.

M. M. Schmidt sent me two nice 5-shot targets made at 200 yards with his .220 Swift and handloads, using 37 and 37½ grains of No. 4320 and the No. 9½ primer behind the Sisk 55-grain Express bullet, with the .033 Ipco wad. One group measured 1¾ inches and the other, 1 7/16.

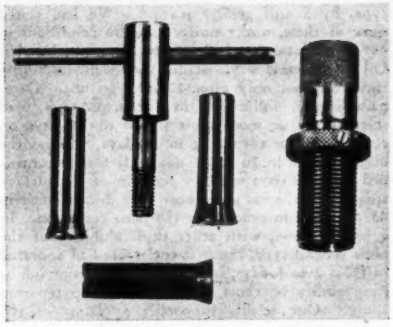
Unless your Sharps-Borchardt has already been revamped by a good gunsmith, including the installation of a firing pin retractor, Otto A. Wagner suggests drilling a No. 39 hole through the top of the breech block about 23/64 inch back from its face. Then put a chisel point on a piece of No. 45 drill rod for a firing-pin pry, and make a hole or loop on the other end for your key ring. Before he did this he had to take down his action in order to remove his primer-stuck firing pin. For this latter chore, he offers the following directions: Drive out trigger pin and remove trigger. Drive out cross pin in rear of breechblock and remove mainspring plug, keeping it under control with thumb. Hook out spring. Force back stuck firing pin with chain-nose pliers, to permit opening action. Remove breechblock before reassembling spring and plug in it, for greater convenience. Reassemble block and trigger in rifle.

In a comment on the relative powder capacity of the .220 Swift and the .22 P.M.V.F., one of our correspondents pointed out that, in the latter, 55 grains of No. 4320 gave the 48-grain bullet only 2970 f.s. and that 65 grains of powder were required for 3850 f.s., whereas the maximum load of 38.8 grains in the Swift case gives the same bullet 3900 f.s. in a 26-inch barrel.

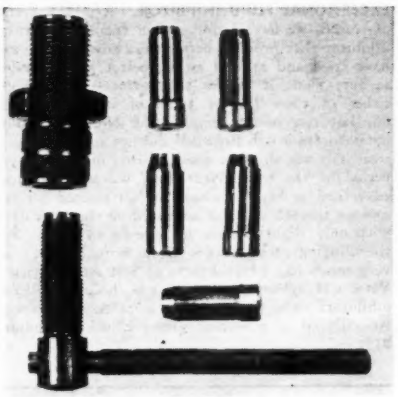
VARIOUS MATTERS. Boris D'Adamovitch Leliva has used the .401 Winchester S.P. for the last 22 years, and says it is "the best killing bullet in the world." He says that it will kill most game, from deer up, with one shot, because its action is "terrific and marvelous'" without ruining much meat. He has killed large bear, moose, tiger, and deer with this soft-point bullet, designed with a copper spine in the point, for the .401 Winchester Self Loading rifle. He owns 3 dozen rifles, including the bigger American and foreign calibers, and considers this bullet Superior to any modern design.

H. Timothy Dean says that, to equal the cubic capacity of a 30-caliber bore 24 inches long, it would require a 29.59-inch barrel in .27 caliber, one of 35.23 inches in .25 caliber, and one of 44.57 inches in .22 caliber. He also points out that, according to our ballistic tables, the percentage of power loss of our standard factory bullets over the first 100 yards is 15 to 16 for the .300 Magnum, 14 to 17 for the .30-40, 14 to 18 for the .30-'06, 15 to 17 for the 7 mm., 15 to 20 for the .256 and 6.5 mm., 11 to 21 for the .270 Winchester, 19 to 23 for the .250 Savage and .257 Roberts, 18 to 24 for the .22 H.P. Savage and .375 Magnum and .405 Winchester, 21 to 24 for the .30-30, 24 to 31 for the .32 Spl. and .348 Winchester, and 30 to 42 for the .220 Swift.

Ralph Albertson, of the Merit Gunsight Company, suggests expanding the 180-grain .351 S.L. Winchester bullet for the .35 Whelen. He has made a few experimental soft-point bullets of .357 caliber (none for sale) which worked well in the .35 Whelen with 50 grains of No. 4064. We tried a few of his bullets in our .357 S.&W. Magnum rifle, getting a 2.79-inch 5-shot group at 100 yards with 16 grains of No. 4227. Our old lead-alloy loads for this rifle had been stored several years, and we decided to expend them. The 5-shot groups ran 2.22, 5.14, and 3.87 inches.



Huntington-Pacific Bullet Puller Outfit



Fasig Bullet Puller for the Pacific Tool

The only 10-shot group measured 2.62 inches, with 8 in 1.36 inches, at 100 yards. This was the 155-grain Bond-Ness bullet with 15¼ grains of No. 2400 and the Western No. 8½ primer.

P. O. Ackley reported his recent chronograph tests. His Improved Zipper with 37 grains of No. 4320 powder gave 3913 f.s. with the 50-grain bullet, which agrees with the velocity reported for the Bluestreak on the Smith pendulum. The latter gave 3700 f.s. with the 55-grain bullet. In Ackley's .250 Magnum case, he could not get over 3280 f.s. with the 125-grain bullet in a 24-inch barrel. But the 100-grain gave 3700 f.s., the 90-grain gave 3950 f.s., and the 75-grain gave nearly 4200 f.s. using a full charge of No. 4350 and Barnes bullets. In the Ackley .270 Magnum, the 160-grain bullet gave 3100 f.s. The load was over 60 grains of No. 4350. A popular load with that bullet is 58 grains, which gives 3000 f.s. With the 140-grain bullet, he could not reach 3300 f.s. without pressure signs. The 100-grain bullet developed a speed of 3740 f.s. and could have gone slightly higher. But a different powder was used with the 120- and 130-grain bullets, and the top speed for both was 3500 f.s. in the same 26-inch barrel. The .35 Magnum gave the 200-grain Remington bullet 3185 f.s. with 65 grains of No. 3031, while 62 grains of No. 4320 gave the 250-grain bullet 2920 f.s.

Edson Hall says that a pressure test with the popular .30-'06 handload of 57 grains of No. 4350 was made using the .300 Savage S.P. bullet. It gave a mean pressure of 46,200 pounds. This is interesting, because some shooters had to stop at 55.5 grains while others got as high as 60 grains without popping primers. Our regular load was 58 grains of this powder behind the M1 bullet, but we used the milder F.A. No. 70 primer.

Richard B. Winslow, a sergeant in the State Guard, won an indoor .22 rifle match against 24 regional winners in Massachusetts. He had 148 in the three positions, with a possible from prone. But the remarkable thing was his perfect score of 50 from standing, because he used an eighteen-dollar Mossberg, borrowed for the match. It was on an April Saturday night in Boston.

H. K. Davis suggests making gas-check cups, for .30-caliber bullets, out of zinc or aluminum when copper is not available. The accuracy has been normal, but the zinc cups grip the bullet base better than those of the lighter metal.

H. J. Darcy suggests using a stylus for oiling difficult spots with thin oil when only a minute portion, or less than a drop, is required. The open-end, or loop, stylus which he sent us for trial is also useful for picking up and drawing out strings of dissolved Lucite for making cross hairs and double horizontal hairs in the scope sight.

PACIFIC BULLET PULLERS. We have tried two makes of bullet pullers for the Pacific Reloader made by Fred Huntington and William Fasig. Both have been advertised for some time. There is little to choose between them as both have collet-type bullet grippers, and both are operated in the reloading tool by a threaded plug equipped with a convenient handle for turning. Both are well made, and both work well. Should you want to split hairs, the principle of the Fasig is slightly better, theoretically, because its collet grips the bullet in a pushing motion instead of in the pulling movement of the Huntington. The pictures speak for themselves.

HANDGUN MATTERS. Dr. Carl W. Wahrer, an old-time leading pistol competitor, suggests that pistol shooters who have trouble seeing their sights should take their handgun with them when they consult an oculist. The glasses should bring his sights into good focus unless he is extremely far-sighted, which will demand a compromise between focusing on sights and target. In this adjustment, the sights should be just adequately clear so that the target will not have to appear too fuzzy. By picking some object about 25 yards distant, the shooter can show his eye doctor just what is required in the matter of sight and target distance.

Mr. Charles Logie, President of the Grand Rapids Rifle and Pistol Club, has an NRA pistol average of just over 94. He likes the "PP" and Olympic models of the Walther pistol in .22 caliber better than any of American make. His .22 Walther is the same in weight and length as the Colt Banker's Special, but it has a barrel of 3⅞ inches and holds nine shots. Also he can score higher with it, although it does not equal his Pocket Woodsman, he says. His Olympic model weighs 58 ounces with all weights attached, but he prefers the 43-ounce weight, and has averaged 290 indoors with it over a six-month period, his second string with this gun being a 98. He had to make a new trigger spring to bring the pull up to a legal two pounds plus, and he prefers his Roper stocks to the standard German issue.

Eric M. Farr uses his fired .44 Special cases for light loads only, after reloading them not over a dozen times. In a machine test at 50 yards he used R.A. cases with W.R.A. No. 111 primers and 6.0 grains of Unique behind the Ideal bullets No. 429348 (173 grains) and No. 429421 (250 grains). The 5-shot groups ran from 2½ to 4 inches, and the heavy bullet was more accurate, although the lighter wad cutter gave a fluke group of 1.92 inches. He tried one selected chamber for some groups, but got equal accuracy when using all chambers. Behind the heavy bullet he has gone as high as 8.0 grains Unique in W.R.A. cases with Dominion No. 2½ primers without trouble, but he found it necessary to avoid large flash holes with some other components. With the 173-grain wad cutter, he tried 12.4 grains Unique in a 7½-inch S.A. Colt and got 1657

f.s. on a ballistic pendulum. He gets some leading with heavy loads, and his most accurate charge of Unique was 5.5 grains, giving about 2½-inch 5-shot groups at 50 yards. He said that with normal loads, up to 7.0 grains from machine rest, the first shot from the cold clean barrel would fly wild about 5 or 6 inches, and usually high and right.

Lt. W. C. Erwin suggests using ordinary lipstick as an easy, cheap, convenient, and effective method of marking targets, groups, or bullet holes. Fred Prager suggests placing a medium-sized shaving mirror behind the pointer or indicator of the powder scale for avoiding eye strain. He says it is easier to follow the image than to focus on the Pacific pointer.

CORRECTION. Among the letters published in the Dope Bag this year were some that had been held in type for several years, as fillers. Applying to an earlier period as they did, some of the statements may no longer apply to certain products. In particular, one reply referred to No. 93 smokeless in Kleanbore and Palma HiSpeed ammunition, which powder has been supplanted by others in Remington loads of this type over the past several years. Also a special Target Master load has been developed for pistols and revolvers since then.

KINKS. R. E. Stones takes strands of ravelled glass cloth from AAF droppable gas tanks and fixes them across his reticule cell with Iron glue for cross hairs. He says they mike .0003 inch, are strong, and have no rough spots or fuzz.

Alfred K. Friedrich says ammonia does a fair job of cleaning fired cases. He uses it full strength and rinses the cases in hot water the instant they turn bright. Quick handling is important as ammonia attacks brass. Then he blows through the flash holes and sets the cases upright to dry with their necks stuck in prepared holes. The ammonia must be fresh to work well.

Otto A. Kaminski removes the anvil from large-size fired rifle primers and irons out the indent with a punch and then pushes the prepared cup over a live small-size pistol primer for rifle use. He says they ignite and burn cleanly such powders as HiVel No. 2 and No. 4759 in .30-caliber rifles. We have tried it with good results and consider it much safer than reloading fired primers with paper caps and other detonators as some desperate shooters do.

AMERICAN DRIPLESS OIL. This product of the American Grease Stick Company is a light thin lubricant that has worked well in our fans, grinders, sweepers, and light motors over the past year. It is a good penetrating oil with a creeping quality that helps it reach relatively inaccessible bearings. The makers claim it runs in and stays put where needed most for a good lubricating job. That could be the case. We were first attracted by the handy container, whose nozzle would emit single drops or a fine stream according to the amount of finger pressure applied. Next, was its quicker penetration of heavy cardboard, and its faster spread on a flat surface, as compared with familiar penetrating oils and solvents. In our practical use, it seemed to lubricate well and to clean fouled gun bores well, but not appreciably better than other thin oils and not as well as certain familiar cleaning solvents. Having no laboratory facilities, we could not establish, evaluate, or measure any qualitative difference.

However, with our 97 per cent saline solution, we were prepared to get a line on another quality claimed by the makers for their product, that of rust inhibiting. It contains a special wartime inhibitor for this purpose, and the makers claim it has protected mild steel for 300 hours, under the condition of 100 per cent humidity and 100 degrees F. in a humidity cabinet, exceeding the government requirements by 100 hours and besting competitive thin oils, of general-purpose household type, by a still greater margin. We had tested some of these, under uniform severe conditions in our salt solution, and now tried American Dripless Oil in the same way. It did very well, starting a tiny rust spot only after 17 days on test. Comparable thin inhibitors, in the same tank, had started two or more spots in 10 to 14 days on test. It began advancing in 35 days, whereas the others did so in 20 to 25 days. It was discontinued after 70 days with 50 per cent of the surface still clear, whereas the others were discontinued in 43 days and in practically the same condition. In a previous test, with other thin inhibitors of the same general type, the first rust spots had appeared in from 2 to 6 days, indicating the superior inhibiting ability of those in the first group reported above. Our results support the claims of the maker, as they indicate the product has an exceptional inhibiting ability for a thin oil.

EXCEPTIONAL FLUID INHIBITOR. After 15 years of search, we have found a thin free-flowing rust inhibitor that protects better than any oil that we have tried and as well as the better greases tried so far, while it covers the surface better than either of these heavier types of inhibitors. In our last test of 13 samples, the No. 915 liquid obtained from Bob Brownell did not let its subject steel start the slightest speck of rust in the 44-day period of the test. Next best, was the product advertised as Sheath, whose subject started a tiny spot on the 6th day and advanced on the 13th day with only slightly more advance in 44 days. By the clinging tacky nature of its film, No. 915 is very much like a liquid form of Soft Amber Rust-Veto, a Houghton product that is also an excellent inhibitor. The 915 deposit was thick and messy. Actually, it is a solvent grease called Cosmoline 915.

TRADE DOPE

Drill Grinding Attachment. A. D. McBurney, 939 West 6th Street, Los Angeles, Calif., has a low-cost adjustable post and base device with a trough drill holder for cutting four different angles in point grinding drills. It works well and is a desirable gadget for the home shop.

* * *

Wooden Gun Cabinets are now available from the Woodcraft Shop. With or without bottom drawers, they are made in models for 3, 4, 6, 8, and 12 guns. See their ad in this issue.

* * *

Silver Plating for cartridges in your collection or belt loops can be obtained in a small bottle at nominal cost from William J. Witzel. See his ad this issue. He calls it Nu-Silver.

* * *

New Products added to the line of The Jaymac Company are an improved gun grease, a bluing solution, and a powder solvent.

* * *

All Around Lubricant is what its makers claim for Slipit, an old product recently improved. They call it a 5-way lubricating compound, penetrant, rust inhibitor, polish, cutting oil, and all-around lubricant. No sample received as yet.

* * *

Old and Modern Weapons are offered in closely packed listings of Martin B. Retting's 51-page catalogue dated July, 1945, but just received. There are 885 regular items followed by 14 more equally crammed pages covering edged relics, cartridges for collectors, and other items.

New Gunsmith Service. Martin Wurzer, a custom gunsmith since 1901, was employed by R. F. Sedgley when the latter bought out Wurzer's partner, Henry M. Kolb, to found the Sedgley company, and Wurzer continued as superintendent of the plant after Mr. Sedgley's death. Now Wurzer has set up a modern gunsmithing and antique firearms shop in Philadelphia.

* * *

Handy Cleaning Rod. The M. & H. Sporting Goods Co. announces a 3-piece jointed steel rod ¼-inch thick with plastic swivel handle for .30-caliber and larger rifled bores. There is a knob-end .30-caliber cleaning tip and an adapter for standard shotgun brushes and tips.

* * *

Alex Hoyer, of Yeagertown, Pa., has been credited with some fine gunsmith work and with a few special long-range wildcat rifle calibers. He also does scope mounting and bolt-handle jobs, and can handle a reasonable amount of work in his spare time from his regular job as a machinist

* * *

Bill Kirsh, of 1284 Sunset, Los Angeles, Calif., informs us he has opened "The American Gun Works" there, and will specialize in custom work on handguns including high-grade refinishing. He was formerly with Webley & Scott in England and with Pachmayr Gun Works here.

* * *

James D. Roberts announces a custom stock-making service, stock repairing, custom handgun stocking, checkering, overhauling, and rebluing, at 3617 12th Street N. E., Washington, D. C. Phone or write before sending work to him.

* * *

L. D. Woodruff, of 5049 Wright Ave., Baltimore, Md., says his war work now permits greater application to his custom stock work, in which he has had 15 years' experience. He has on hand curly, birdseye, and lacy maple, but can also furnish walnut. He guarantees every job, but can accept no rush work, and asks each customer to write first for a delivery date.

* * *

Hal Hartley, of Route 4, Lenoir, N. C., has about 40 blanks of curly maple, cut and cured by his own efforts. Following much restocking practice as a hobby, he has decided to go into the restocking business, and we have decided to try his service on that Model 1917 rifle which attorney J. H. Blandford recently got back for us from Jack Frost.

* * *

Hoard & Phillips announces their new gun shop at 2544 15th Street, Denver, Colorado, where they intend to specialize in custom gunsmithing and barrel fitting. They will guarantee all work. Phillips was formerly with Hoffman Arms Company at Amarillo, Texas, and with Sukalle, the Phoenix barrel man. R. C. Hoard was formerly with Marlin, Winchester, and Army Ordnance at Fort Bliss.

* * *

Fred J. Braucher, of 345 Lisbon Street, Canfield, Ohio, has issued a price list of more than 300 guns, old long guns and handguns.

* * *

J. F. Eder, of 219 N. Cleveland, Sherman, Texas, is an architectural sculptor who has been applying his art and skill to the carving of gun stocks in recent years. We have seen a photograph of some beautiful Eder jobs on rifles, and are sending one of our rifles to him for carving, on which job we shall report later.

"Try my SAVAGE"

Some SAVAGE MODELS AVAILABLE NOW

In accordance with government regulations, SAVAGE is producing a limited quantity of firearms in a few standard models for essential civilian uses, but only to the extent that their production does not interfere with our war work. Consult your dealer about availability and remember — YOUR new SAVAGE is worth waiting for.

"Try my Savage Model 99. Perhaps it will change your luck. It has for a lot of the boys. I've shot 'em all in my day but I never owned a big game rifle that could match it for easy handling, speed and accuracy.

"When a 'jumped' deer starts high-tailing it, that's when you need a rifle that comes up quick, swings fast and packs the wallop it takes to bring 'em down and keep 'em there. Mister, the Savage Model 99 is that kind of a gun and, I'll promise you this—you'll find it's the sweetest handling, finest shooting rifle you've ever carried on a big game hunt."

• • • •

For years the Savage Model 99 has been a favorite with big game hunters everywhere. Its streamlined, solid breech design, lightweight, lightning-fast lever action, fine barrel accuracy and great power combine to bring the shooter a rifle that's unequaled for every type of big game hunting. The Savage Model 99 again will be available in a variety of styles and calibers, including the famous Savage .300 and Savage .250-3000. Savage Arms Corporation, Utica, N.Y. Plants in Utica, N.Y. and Chicopee Falls, Mass.

Savage Model 745—Lightweight Automatic Shotgun for upland game. Light, fast, dependable. Model 720 (standard weight) for duck and skeet shooting.
Savage Model 6—.22 caliber automatic rifle—three rifles in one. One of a great line of Savage .22's and medium power rifles.
SAVAGE
WORLD FAMOUS FOR DEPENDABILITY AND ACCURACY
Manufacturer of Rifles and Shotguns, Lawn Mowers and Refrigeration Equipment

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics or the attempt to circumvent these general requirements, when brought to our attention, will result in refusal of further advertising and might result in disbarment from the NRA in the case of members.

2. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

3. Who May Advertise: The ARMS CHEST is an open market trading post. Any individual or firm whose advertisement and methods of doing business meet our requirements may advertise their goods or services.

4. Rates: All classified advertisements must be accompanied by remittance. The rate is 15 cents per word including name and address—minimum charge $2.00.

5. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters likewise are counted as one word (example: W. H. Smith; H.B., meaning heavy barrel; HP., meaning highpower). Hyphenated words are counted as two words (examples: 20-gauge, pearl-handled, no-slip).

6. "For Sale" Ads Must State Price: A specific price must be stated on all FOR SALE ads—except that the phrase "write for catalog" may be used when listing real estate or merchandise in quantities.

7. Firearms for Sale or Trade Must Be Defined: The *condition* of every gun (including essential parts) advertised for sale or trade, *must* be specified according to *NRA standards*, as follows: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition, implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

8. Non-Specific Phrases Barred: Phrases such as "highest" or "top prices paid," as well as any other so-called "auction-type" phrases are not acceptable. The terms "fair price paid" or "state price wanted" may be used.

9. Blind Ads Not Acceptable: Box number or blind ads will not be accepted. Give your complete name and address, to insure prompt delivery of all mail or telegraph replies.

10. Requesting Privilege of Examination: Purchasers desirous of examining merchandise before acceptance should request shipment by express C.O.D. with examination privilege. This procedure permits the purchaser to inspect the merchandise *in local express office* and authorized the express company to return unsatisfactory merchandise at shipper's expense.

11. OPA Ceiling Prices: An agency of the Federal government has legally fixed the prices of various commodities, including dealer and individual sales of ammunition (except handloads), and firearms, both new and used, except guns personally owned by individuals, acquired for their own personal use. Attempts to evade ceiling prices are violations of Federal statutes. It is physically impossible for us to ascertain whether or not firearms advertised in the Arms Chest are "personally owned" or to check advertised prices against legal ceiling prices. This is the responsibility of the advertiser, and advertisements offering to buy or sell merchandise at higher than legal prices will, when called to our attention, subject the advertiser to the penalties mentioned in paragraph 1.

12. Federal Explosives Act Defined: Under the Federal Explosives Act of 1941 all buyers, sellers, and possessors of gunpowder (not complete cartridges) must be licensed. Explosives licenses are usually obtainable from county court clerks. Purchasers must submit such licenses or a certified copy thereof to the seller at time of sale.

13. "Outlawed" Firearms Defined: The sale of certain firearms is outlawed by Federal law unless handled by a Federally licensed dealer. These included machine or submachine guns; sawed-off rifles and shotguns with barrels of 18 inches or less, and Mauser and Luger auto pistols *with holster stocks*.

14. Responsibility for Illegible Copy: Type or print advertisement plainly, as we can not be responsible for errors due to illegible writing.

15. Closing Date: The closing date of all advertisements is the 5th of the month preceding month of issue.

FOR SALE

SHOTGUN COMPONENTS: 12 GAUGE ONLY, ⅛" cardboard wads, full length sized, primed, special wax treated, trimmed empty cases, machine made rifled slugs, shotgun primers, send 10¢ for complete list of components, handloaded ammunition, dies, gunsmith service and bluing. Jim Clark, Sporting Goods Co., 2029 W. Fondulac, Milwaukee, Wisconsin. 9-45

GUNS, MODERN, ANTIQUE, ALL KINDS, AMmunition, loading tools and supplies. List 10¢. Geo. Brullesauer, 3957A Castleman, St. Louis 10, Missouri. 1-46

ILLUSTRATED 145 PAGE CATALOG OF Antique firearms and edged weapons 25¢. Robert Abels, 860 Lexington Ave., New York 21, New York. 1-46

YOU HAVE "A GERMAN RIFLE?" AN A&E plaque engraved with details of its capture will make it YOUR trophy. Write for folder. A&E Stamping & Etching Co., 166-55 24th Road, Flushing, Long Island, New York.

CATALOG LISTING PARTS AND ITEMS OF interest to collectors and muzzle loading gun shooters, also bayonets, swords, cartridge boxes, etc. price 15¢. House of Guns, Alpine Place, Arlington, N. J. 9-45

MUZZLE GUN SUPPLIES: #11 PERCUSSION caps, 1000 for $2.85 f.o.b., black powder 6¼ pounds for $4.00, f.o.b.—Bureau of Mines License required. Several tested flint and percussion rifles ready to sell—$37.50 to $125.00. Powder Measure-Charger (for black powder only) zero to 100 grains, $3.50. Colt and Remington pistol nipples, 5 for $1.00. Rifle and shotgun nipples (¼"-28 thread) 5 for $1.00. Small caliber hickory ramrods, 75¢, over .45 caliber $1.00. "For Beginners Only"—a booklet designed to help beginners in muzzle gun game. Other gun publications. E. M. Farris, N&W YMCA, Portsmouth, Ohio. tf

REVOLVERS, MINERALS, STAMPS, COINS, glass, Indian relics, catalog 5¢. Cowboy Lemly, Las Cruces, New Mexico. tf

INDUSTRIAL RRODUCTS COMPANY, IPCO Reloading Lubricants, now at Box 14, Wakefield, Mass. William W. Perkins, Prop. tf

ANTIQUE AND OBSOLETE FIREARMS FOR collectors bought and sold, always a fine stock on hand. The House of Guns, 34 Alpine Place, Arlington, N. J. 11-45

CASWELL TARGET CARRIERS GIVE THE shooter every possible point because they hold the target steady and require no exertion to operate, fully equipped with speedy ball-bearing pulley wheels and target holders for every type of indoor paper rifle or pistol targets. Caswell Target Carriers, Anoka, Minnesota. tf

AVAILABLE, NEW H&R .38 CALIBER Defender revolver M25, $31.25, new Sportsman M999, $31.25 limited amount .22 caliber ammunition, new Topper M48 12 gauge shotgun, $14.55. Adrien Grenier, North Grosvenordale, Conn.

WAFFENFABRIK WALTHER 7.65 AUTOMATIC, excellent with shells, $45.00, Beretta 7.65 automatic good $20.00, Mauser 7.65 excellent, $29.50. Farmers & Traders Exchange, Chittenango, N. Y.

WINCHESTER MODEL 97, 12 GAUGE, FULL choke 28" good, $45.00 and shells. E. Rose, Rt. #2, Montrose, Colorado.

BRAND NEW MC CLELLAN RIDING SADDLE with bags, $60.00. Scabbards $12.50. Paul Ratliff, Hillyard, Wash.

WC SCOTT DOUBLE 12-28" F&F, AUTOMATIC ejectors, Italian walnut stock, 13¾ x 1¾ x 3" pad, half PG checkered double triggers, safety gas checks, glass windows, ivory sights, gold top front elaborately engraved, weight 7-2, takedown case, 1 case (500) shells, excellent $440.00. H. L. Baldwin, Box 643, Waterloo, Iowa.

WINCHESTER MODEL 1892 .25-20 RIFLE WITH 400 shells or 8 boxes, gun is in good to fair condition, $80.00. Jim Crow, Box 221, Silverton, Texas.

KRAG SPORTER, GOOD $34.50. AMERICAN Rifleman 100 copies 1931-1941, $7.50, first money order. E. A. Schory, New Philadelphia, Ohio.

REWARD—CASH OR GUNS FOR YOUR HELP in locating purchasable Antique Firearms Collections. Prompt, honorable dealing. James Serven, Santa Ana, Calif. tf

INDIAN RELICS, CONFEDERATE BILLS, COINS, minerals, gems, fossils, crystals, illustrated catalog 5¢. 100 ancient arrowheads $3.00. H. Daniel, Hot Springs, Arkansas. tf

THE REVOLVER TIMING RECORD—A 10-INCH RCA Victor phonograph record, practice timed and rapid fire anywhere, by yourself, nothing to watch—just listen, for dry shooting, basement and outdoor ranges, one side 10 second timing, other side 20 second timing, plays on any phonograph, $1.50 postpaid. The Original Sight Exchange, Box J., Paoli, Penna. 2-46

COLT, REMINGTON AND OTHER CAP AND ball revolvers, all calibers, muzzle loading long guns, moulds, and flasks. List 10¢ in stamps. E. C. Ward, 406 Wilcox Bldg., Los Angeles 12, Calif. 9-45

PATENT PROTECTION, INFORMATION AND invention record free. Randolph & Beavers, 370 Columbian Bldg., Washington, D. C. 12-45

GIANT CHINCHILLA RABBITS, VALUABLE fur, delicious meat, easily raised, pleasant pastime, tremendous demand, small investment, large profit. Willow Farm, R82, Sellersville, Penna. tf

WEBLEY SCOTT MARK II, EXCELLENT Inside and out, 500 pellets, $22.50. Clyde G. Howell, Yorkville, Ill.

45-70 WINCHESTER 86, HALF MAGAZINE, micrometer sight, good condition, $45.00. Paul Clark, 481 Finley. Dubuque, Iowa.

.45 S&W 1917, GOOD, 50 CARTRIDGES, $45.00, .32-20 Colt Bisley, 6½ special barrel, good, $45.00. .32-20 Colt single action, 7½, blued, very good, $45.00, 32-20 '92 Winchester carbine, good, $30.00, few .32-20 cartridges. Arthur Forrer, Griffin, Georgia.

SAVAGE M19, TARGET RIFLE, EXCELLENT in, out $50.00, Karl Knutson, 110 Harvest Avenue, West Brighton, Richmond 10, N. Y. Money Order.

NEW CLASSIFIED RATE

EFFECTIVE WITH THE JUNE ISSUE the rate for classified advertising is 15 cents per word, minimum charge, $2.00; maximum number of words to one advertiser, 100. Name and address are included in word count and remittance must accompany the copy. This adjustment brings the classified rate more nearly in line with the display rate. Closing date remains the 5th of the month except that we reserve the right to limit advertising by publishing ads in the order received up to the limit of available space.

NOW AVAILABLE FOR IMMEDIATE DELIVERY, new H&R .22 Sportsman target revolvers, model 999, double action 6" blued barrel, 9 shot long rifle, long or short cartridges, adjustable target sights, only $31.25 prewar price. also H&R single barrel shotguns available for delivery at once, 12 gauge, 30" full choke only, walnut stock and forearm, positive automatic ejection, hard rubber butt plate, for all standard high speed shells, only $14.55, send check or money order in full 20% deposit for C.O.D.'s, express charges collected on delivery, money back guarantee. Klein's Sporting Goods, Famous for guns since 1885, 506RE, South Halsted, Chicago 7.

REMINGTON AUTOMATIC 12, 28" FIVE SHOT, close shooter, pad, leather case, excellent, $100.00, satisfaction guaranteed, want double gun or .22 automatic rifle. F. J. Schneller, 261 No. Cedar, Manistique, Michigan.

WINCHESTER 12-12 GAUGE, 30" FULL, EXcellent in, very good out, $65.00, Winchester 24-12 gauge, 28" modified, full, excellent throughout, $40.00. R. Lane, Box 550, Poughkeepsie, N. Y.

WINCHESTER 52 HB, MARKSMAN STOCK, vaver front Marble-Goss rear, sheepskin case, excellent, $85.00, R. A. Stevens, 545 W. Works St., Sheridan, Wyoming.

SPRINGFIELD-DUBIEL .22 CAL. SPRINGFIELD M.2, with 26" Dubiel heavy barrel, Hart Arms Co. bolt conversion, Goss micrometer rear sight, Redfield front, scope blocks, stock rebuilt with cheekpiece and full pistol grip, inside excellent, outside very good, Freeland cuff type sling, carrying case, $100.00, also Lyman 15X Super-Targetspot in carrying case, very good as to appearance, perfect mechanically and optically, $75.00, B&L, N.R.A. 20X (50mm) spotting scope, excellent, with Mossberg stand, $60.00. Donald A. Hamilton, 320 Main St., Stillwater, Oklahoma.

ONE HOFFMAN 7MM. SPORTER BARRELED by Dubiel, like new, with approximately 40 cartridges, $195.00, one Mannlicher 8.9mm. sporter with Zeiss 4 power scope, 30 cartridges, leather cases for scope and rifle, all new condition, $255.00. J. A. Norris, 1607 North Hills Blvd., Knoxville, Tennessee.

TO SETTLE ESTATE, FISHING TACKLE, GOLF clubs, list furnished. Frank Johnson Atty. Fox Lake. Ill.

BROWNING OVER AND UNDER, 30" BARRELS, full and modified, single trigger, recoil pad, ventilated rib, leather case, excellent, $200.00. C. C. Bidwell, 955 Main St., Bridgeport 3, Connecticut.

LARGE COLLECTION OF AMERICAN AND European antique arms send 25 cents in coin for our 12th edition catalog. We buy whole collections or single pieces, fair prices paid. Kimball Arms Company, Woburn, Mass. tf

AMMUNITION 45-70-500 SMOKELESS, $1.64 PER box, $8.00 per hundred, packing charge 10¢ per box, no c.o.d. shipments. L. L. Bolin, Dept. R, #9 Grand St., South Amboy, N. J. 12-45

SHOTGUN WADS FOR SALE 10, 12, 16, 20 gauges, $5.00 per M, packed in 1000 lots, consisting of 500 3/4", 250 1/8"C, 250 thin C, $4.00 in 5000 lots. send remittance with order, prompt delivery. E. G. Snyder, Rt. #2, Reading, Penna.

AMMUNITION—CUSTOM LOADS 30-40, 30-30, 300S, $4.00 box, Odd lot factory miscellaneous calibers, rifle, pistol, list for 3¢ stamp. Paul Ratliff, Hillyard, Washington. 9-45

AMMUNITION — EXPERT HANDLOADS, .38 special Service or Keith bullet, per box $1.75, per M $34.00. .45 Auto. factory reloads, $2.25 per box, per M $42.50. Morrison, 322½ So. 6th, Springfield, Ill. 9-45

1945 CATALOG OF FIREARMS FOR COLlectors and M.L. shooters, 23 pages, 428 items and many fine drawings, price 25¢. The House of Guns. Alpine Place, Arlington, N. J. 10-45.

BROWNING SWEET-SIXTEEN IMP. CY. RIBBED barrel 28" like new inside and out, $140.00, Colt .32 auto, latest model, new condition with one box shells, $40.00, Colt double 10 gauge hammerless, butt stock split and barrels pitted $15.00, Winchester #12, 12 gauge 28" full, like new inside, some blue wear on receiver outside, $60.00. Henry Troemner balance, $7.00, 250-3000 short action Mauser by Fred Adolph, ribbed barrel Lyman receiver rear, gold bead front, fine checkered stock with trap butt plate, very good, fine leather case, $165.00, Smith & Wesson .32 regulation police nickeled, excellent, $28.00, will pay good price for .30 or .35 cal. Newton unfired cases or complete cartridges. No telephone or wires please. Frank J. Weiss, 2201 No. 15th St., Sheboygan, Wisconsin.

COLT OFFICERS MODEL .22 PERFECT IN, EXcellent out, $65.00. Captain L. S. Carlson, A-12, ARTC, Ft. Knox, Kentucky.

EAGLE LUGER 9MM, EXCELLENT, $50.00, 150 cartridges, belt, new Heiser holster. F. W. James, 900 B.V.S. Customs House. Philadelphia, Penna.

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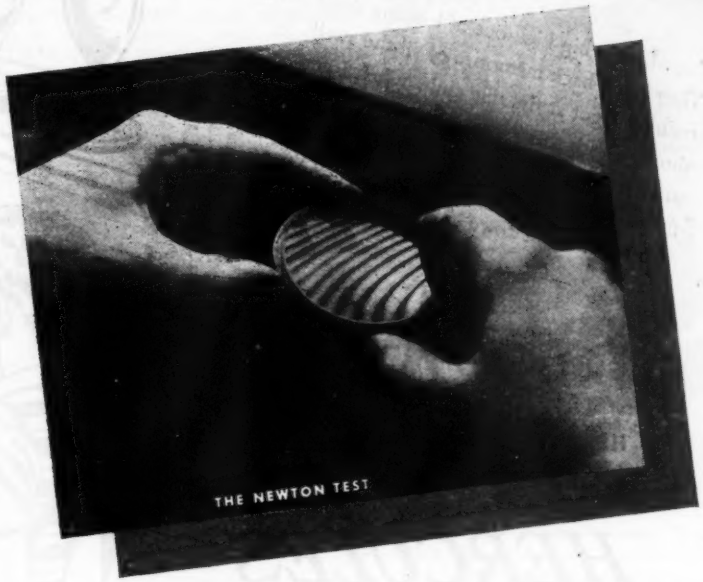

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EXCELLENT S&W MASTERPIECE, $90.00 AND S&W .38 M.P. target, 6", $75.00, one pair Roper grips, interchangeable. Lt. Fred M. Seguin, 4211 North A Street, Tampa, Florida.

EXCELLENT WINCHESTER 52 BULLGUN, vavers, sheepskin case, checkered, four magazines, rubber plate, Henshaw, extra aperatures, no alterations, $95.00. Lewis E. Kleis, 909 White St., Dubuque, Iowa.

CAPT. WOTKYNS FAMOUS HORNET, MODEL 54 Winchester, with Marksman bullgun type stock, Winchester 5A scope, excellent optics, ammunition, Super accurate, $130.00, also 30-06 Springfield, nickel steel bolt polished, heat-treated receiver, 28" heavy Super accurate barrel, bullgun stock, $75.00. Fred T. Huntington, Oroville, California.

M70 HORNET, REDFIELD REAR, HOODED ramp front, sling, ammunition, Ideal reloading tools and mould $160.00. one set Ideal 250-3000 reloading tools (40) new, primed cases, $15.00, Mauser custom 8mm. sporter Monte-Carlo cheekpiece stock, Lyman 48 WJS ivory inlays, PG with cartridges, $185.00, all excellent. H. L. Baldwin, Box 643, Waterloo, Iowa.

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BELGIUM HIGH GRADE PERFECT 12 GA. 27½" high grade steel barrels, full choke, 7" nice English pistol grip stock checked 100 shells, $90.00. Money order only, no wires, no c.o.d.'s. J. E. Wellington, Box 223, Wellsville, Ohio.

REMINGTON 30S, 257 LYMAN 48, WEAVER 330, $200.00, Savage 23D Hornet, Weaver 29S, $120.00, H&R Sportsman, custom grips, honed action, $60.00, all excellent condition. Robert Aronstein, Rt. #1, Box 28E, Camarillo, California.

.45 COLT NEW SERVICE, 5½, EXCELLENT, $60.00, 30-06 Sedgley Featherweight Springfield Sporter, 22", recoil pad, G&H side mount scope base, altered bolt, 5 boxes hunting cartridges, excellent, $135.00. Arthur Forrer, Griffin, Georgia.

12 GA. SAVAGE OVER & UNDER, PERFECT IN, excellent out, two sets of barrels, $75.00. Bert Darrow, Stuttgart, Arkansas.

COLT SUPER AUTO, EXCELLENT, IN FACTORY box, 200 rounds factory ammunition, $75.00, Colt 380 auto, good, some blue worn off, 100 rounds factory ammunition, $35.00. M. O. only. C. M. Pequignot, Member. Under Sheriff, Richland Center, Wisconsin.

MULTIPLE 30 CALIBER MOULDS, $8.00 EACH, 25-20 Remington pump, excellent, $52.50, 10 gauge brass shells, 12¢, new rubber rain coat $15.00, good .22 H.P. Savage $65.00, Henke, 559 Evergreen, Ventura, California.

375 WINCHESTER 70, EXCELLENT, 3 BOXES shells, $125.00, want 16 gauge double. Leitch, % Veil, R.F.D. #2, Whippany, N. J.

CUSTOM SPORTING RIFLES, .270's, ACKLEY barrels, Bishop stocks, improved Mauser actions, 30-40 Krags, Bishop stocks, 3¢ stamp for details. Paul Ratliff, Hillyard, Washington. 9-45

SAUER 12 GA. EXCELLENT, AUTOMATIC ejectors, extensively and beautifully engraved, $375.00, Sauer 12 ga. very good, $130.00, inspection privileges. Write for details. Rodney Day, Haverford, Penna.

AMMUNITION AVAILABLE TO QUALIFIED purchaser. List 10¢. N. R. Rudolph's, Atchison, Kansas.

WINCHESTER 70-06 LYMAN 48 WJS, EXCELlent, ammunition, $115.00, Remington Sportsman 12 gauge, Poly Choke, canvas case, excellent, ammunition, $100.00. Clyde Cutler, Northfield, Vermont.

MOOSE HEAD TROPHY . BEAUTIFULLY mounted, ideal for den, $350.00, perfect Remington #11 autoloading shotgun, 12 ga. equipped with recoil pad, Cutts comp. and 4 choke tubes, an additional interchangeable barrel, without Cutts $145.00, perfect Remington #11 autoloading shotgun 16 ga. modified $78.00, German prism hunting binoculars Dietzen 6x24 optically perfect $95.00. Money orders only. Dr. Averbach, 517 Medical Professional Bldg., Corpus Christi, Texas.

NEW TYPE BULLET PULLERS FOR THE Pacific tool, easy to adjust, operate, and tremendous leverage, does not damage the bullet, any caliber, standard calibers in stock, $7.50 complete one caliber, $2.50 for each additional caliber chucks, write for details, dealers discount. R.C.B.S. Company, 688 High Street, Oroville, California.

MODEL 70, 270 CALIBER WINCHESTER, standard grade, near perfect, new 330 Weaver, Stith mounts, handmade, buckskin carrying case, 100 factory loads, price $225.00. Fred G. Morris, Box 132, Scottsville, Kentucky.

M70 WINCHESTER HORNET, EXCELLENT IN, very good out, Lyman 48 rear, hooded ramp front, 300 factory loads, 800-1½ primers, Ideal tool, complete $150.00, 12 ga. 28" mod. Remington auto M11A, excellent in, very good out, 5 boxes shells, $100.00, 16mm. Kodascope, perfect, extras and films, $175.00. Want M70 Swift. James A. Greene, Member, Rockwood, Tennessee.

.38 COLT OFFICIAL POLICE HEAVY 6" BARrel revolver, very accurate inside, very good outside recently reblued sure grip fitting, slightholster wear on stock, 50 rounds factory loads, 50 reloads, 250 wadcutters reloads, new true fit leather holster $55.00. Paul G. Darrot, Southbury, Connecticut. N.R.A. Member.

BROWNING 5 SHOT 12 GAUGE AUTOMATIC, 30" barrel, full choke, stock slightly scratched, little crack on forearm, barrel and action excellent, $78.50, Fox Sterlingworth, 16 gauge, Beavertail forearm, 28" barrels right improved cylinder, left modified, perfect, $85.50, Winchester model 70 standard grade, open sight, 257 Roberts, perfect $110.00, Winchester model 71 deluxe grade, 348 caliber, 24" barrel, perfect, $110.00, Enfield Sporter, caliber 30-06, 26" barrel, Redfield ramp front micrometer rear sights, beautiful Peerless Stoeger stock, hand work, oil finish, no checkering, perfect $87.50, Remington model, 24 automatic, 20" barrel, magazine holds 10-22 long rifle, lubricated cartridges, excellent, $28.50, all the firearms above have swivel screws, Colt New Service target revolver 45 caliber 7½" barrel, Heiser holster and belt and 75 cartridges, excellent, $78.00. David Detrick, 9 Van Zant St., East Norwalk, Connecticut.

AMMUNITION, FRESH STOCK, 30-06 M1 AND M2 $6.00 per 100, .45 caliber auto, $5.00 per 100, cash, satisfaction absolutely guaranteed. Adrien Grenier, North Grosvenordale, Conn.

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417 WALNUT HILL, CUSTOM STOCK AND forearm, vaver front, Marble Goss rear, excellent, carton ammo. $115.00. E. L. Franklin, Rt. #3, Box 941, Albuquerque, New Mexico.

WINCHESTER .348, MODEL 71 DELUXE, EXcellent, 6 boxes ammunition, $115.00. J. J. Moravec, 516 Palmer Avenue, West Allenhurst, N. J.

EXCELLENT SPEEDLOCK 52, STANDARD BARrel, no sights, sporting stock made from Winchester blank, $50.00 excellent scope-sighted 70 Hornet, loading tools, ammunition, $125.00, details for stamp. E. A. Sieberns, Nevada, Missouri.

WINCHESTER 70, .257 ROBERTS, SCOPE blocks, Tilden safety, sling, recoil pad, 48WJS Lyman peep (not installed), excellent in, very good out, with 100 factory and hand cartridges, 150 cases, 100 primers, 100 86 gr. and 100, 100 gr. SP bullets, $150.00. Litschert 8X Eagle scope, dehorned mounts, double Lee Tackhole Dots (reticule #7), excellent, $85.00. A. M. Allison, 2133 Washington St., Bluefield, W. Va.

COLT .32 AUTOMATIC, NICKEL, PEARL stocks, extra walnut stocks, very good except few minor nicks outside, $35.00, 30" Krag as issued by D. C. M. some wear observable in barrel but smooth and no pits, few minor dents in stock, $30.00. R. H. Lindsay, 15 Elm Place, Summit, N. J.

MODEL 12-20 GAUGE WINCHESTER, 28" plain barrel marked full choke, chambered 2¾ receiver frame finish worn otherwise very good, $75.00, cash with order. Agnes Ehbauer, 213 Orchard Avenue, Olean, N. Y.

NEW CATALOG #25 DESCRIBING OVER 2000 bargains 30¢, modern antique firearms, accessories, ammunition, war relics, binoculars, swords, knives, brand new 45-70 Springfield $21.50, Krag barrels, fair $7.50, good $9.00, 30-06 barrels, good, $4.50, 1903 Springfield stocks, $4.00, 30 caliber bullets $1.50 hundred, Krag Sporter, excellent, $60.00, 44 S&W Russian model, Silver and Gold finish, good $72.50. John Smith, Rambler Ave., Runnemede, New Jersey.

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35 REMINGTON PUMP, 141, ALMOST NEW, few scratches on finish, 80 fresh factory cartridges, more available. $85.00, Buffalo Newton .257, 23" Remington #2 barrel, set & single triggers, Malcolm 5X target scope & mounts, Redfield micrometer receiver sight, Ideal dies, cases, bullets, primers, bore & action perfect, finish very good, stock poor, $110.00, 6½" Woodsman, 3 clips, 500 cartridges, excellent in, outside holster worn, $55.00. Clare Hellyer, Caliente, Nevada.

SPRINGFIELD MT CALIBER 22, LYMAN 54 rear stock shortened piece added lengthen, good condition, $110.00 cash with order. Max Andrews, Olean, N. Y.

BEAUTIFUL K-HORNET, CURLEY MAPLE stock, 10X Fecker scope, very good $155.00. Bielefeld, New Knoxville, Ohio.

$15.00 NEW GOVERNMENT STEEL FRAME chair, cushion seat, for pilot house or other purpose, seven positions, up and down and forward and back, cost $50.00, send for photo. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia 6, Penna.

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WINCHESTER 52 COMPLETE OUTFIT H.B. 51960B, very good, 10X Unertl scope, tube sight, ¼" click mounts on both, vaver front, large Badger kit, lots of extras, $200.00, Enfield custom sporter, cheekpiece stocked left handed, 200 rounds M.P. box factory shells, ramp reflector front, Pacific rear, very good, $85.00, 2000 Super Match 22 L.R. trade for good hunting scope. Presley Katz, Verona, Penna.

20X 1¼" UNERTL SCOPE, 14 LB. 30-06 BULLgun $200.00, excellent to perfect description on request. Ray Bell, 500 E. Monroe, Springfield, Missouri.

AMERICAN RIFLEMAN BACK COPIES SELL cheap, 1929-10 copies, out March and June, 1930 to 1933 complete, 1934 Jan. to Aug. J. Larzelere, 5904 Park Ave., Philadelphia 41, Pennsylvania.

HAVE YOU "A DEER HEAD?" AN A&E plaque engraved with details of the kill will make it your trophy, write for folder. A&E Stamping & Etching Co., 166-55 24th Road, Flushing, Long Island, New York.

REMINGTON AUTOMATIC 12 GAUGE, CUTTS equipped, action and barrel excellent, wood fair, $75.00, one 32 long S&W pistol, barrel fair, good outside, little used, $35.00, one Ithagee ½ V.P. Zeiss Tessar compur 2.8 one sec. to 1/300 excellent, $56.95. Russell O. Skinner, 327 East Main St., Palmyra, Penna.

BOOKS for the GUN BUG

covering the subjects of gunsmithing, hand loading, and shooting. These choice titles will be sent post paid, on approval for your personal check.

Complete Guide to Handloading, by Sharpe	$7.50
The Handloader's Manual, by Narramore	3.50
The Modern Gunsmith, by Howe, Vol. I, II	15.00
Advanced Gunsmithing, by Vickery	4.00
Modern Gunsmithing, by Clyde Baker	4.50
Elementary Gunsmithing, by Frazer	2.00
Small Arms Design, by Whelen	6.00
Firearms of the Confederacy, by Fuller-Stewart	12.50
Smith & Wesson Handguns, by Roper	7.50
Hand Cannon to Automatic, by Logan	5.00
Textbook of Automatic Pistols, by Wilson	6.00
Telescope Rifle Sights, by Whelen	2.00
The Sharps Rifle, by Smith	3.00
The Rifle in America, by Sharpe	10.00
Our Rifles, by Sawyer	4.00
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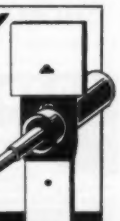

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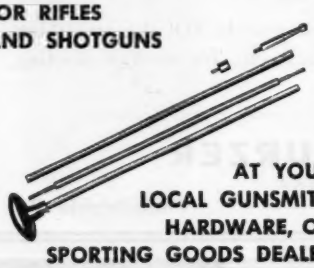

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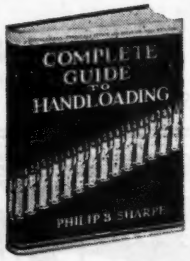

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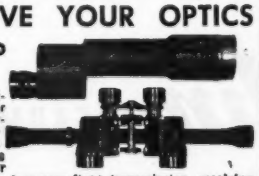

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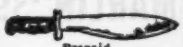

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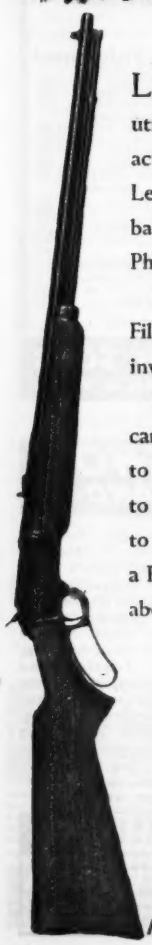

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P.38, SHELLS, PERFECT, $110.00, GENUINE Luger 7.65, shells, excellent, $85.00, Remington 25 automatic, good, shells, $75.00, Mauser 8mm. Sporter, excellent, $90.00, Enfield Sporter, 30S stock, 22" barrel, 330 scope, Redfield mount, perfect, shells, $150.00, M-2 .22, Lyman 48, custom Sporter stock, $115.00, Texas polished steer horns, 6 feet, hand-tooled leather mounting, perfect den decoration. $200.00, worth $300.00, another $100.00, trade Hedroom tent, excellent, 9x9 with extra room, cost $70.00, $60.00 or trade. Mossberg H.B. target sights, Lyman Field scope, sling, perfect, $60.00. Want skeet 16 pump. Ralph Bricker, 101 Leming, San Antonio, Texas.

WINCHESTERS, ENGRAVED OR FANCY models '90, '94, '86 takedown carbine, heavy singleshots or actions or barrels, Sell: Bisley 38-40, reblued new 7½" barrel, otherwise good, $35.00, Weaver 440 new, T or H mounts $35.00, Winchester A-5 Special scopes, 6 power, excellent to good appearance, all excellent optically with block screws and cases $27.50 to $23.50, all letters answered. Lloyd Bender, Galion, Ohio.

NEW 1" 8X UNERTL SCOPE, $48.00, NEW 440S Weaver scope, $31.00, S&W triplelock .44 Spl. excellent, for .38 Spl. revolver. V. R. Colburn, 125 Rogers Avenue, West Springfield, Mass.

FIVE YEAR POINTER, EXCELLENT RETRIEVER land or water, $175.00, or trade for excellent 70-270 with Lyman Alaskan and loading equipment. Ralph Hall, Lafayette, Ohio.

TARGETSPOT, 8X, VERY GOOD TO EXCELlent out, perfect in, with known ranger lens caps & eye cup, $75.00. 172 gr. Boattails $2.00 hundred. Want King Colt Woodsman, .22 L.R. ammunition, M.O. Please. R. A. Zehl, 8717 Loch Bend Drive, Towson 4, Maryland.

PERFECT WINCHESTER M12, 12 GA. 26 TO 28" barrel, including Weaver choke, 4 tubes, 7¼ lbs., $95.00 or perfect National Match Springfield and micrometer or mod. 70, N.M. Winchester. E. S. Cornell, Charlestown , N H.

WINCHESTER MODEL 86, CAL. 45-90, HALF magazine, pistol grip stock, ammunition, good, $45.00, two Colt Frontiers, .22 cal. and .45 auto. good to very good, $65.00 each. Want Speed Graphic, studio camera, microscope, Springfield 30-06, cash or trade. Walton, P.O. Box 1457, Tampa, Florida.

FOLDING HAWK EYE CAMERA, FILM OR plates, with plate holders, printing frames, trays, drying rack, @ $25.00. Want Woodsman or hunting scope. Dr. John P. New, 4638 Benevides Avenue, Oakland, Calif.

303 BRITISH CARTRIDGES, 20 FOR $2.25 Ideal #4 tools, 32 S&W, 25-20 good, each, $6.00. large assortment tools etc., list sent for stamps. Rifleman 25¢ copy. Wanted Rifleman, cases, Mauser, bayonets, actions. E. Burns, 63 Uncatena Ave., Worcester 6, Mass.

SAVAGE 720, AUTO, NEW 12-28 GAUGE FULL, shells, $69.00, Savage 19 target new, 500 L.R. $55.00, Stevens 410 over under new, $25.00, 410 bolt action repeater new, $23.00, 410 single good, $10.00, bolt action repeater 500 L. R., $20.00, Winchester 22-03, 150 rounds, very good, $25.00, 100 Winchester .351 $10.00, 85 Winchester 35 auto, $7.50, 40 7mm. $7.00, 250, 12 gauge $25.00, Spotting scope $20.00. Leopard head $15.00, what have you? Answer 26th. S. Gerhardt, Member, Jamaica Plain, Mass.

GOOD HI-SIDE ACTION $15.00 AND POWDER scale. Want model 70 Hornet or 250-3000. H. P. Hoppe, 2000 Park, Lincoln 2, Nebraska.

.45 COLT, 6" BARREL, FAIR, 35 CARTRIDGES, $40.00, Meepos sizer, .454 $12.00, Ideal .45 automatic tool, $5.00, MB "C" tool .38 Special $12.50, Bond 358755 mould $6.00. Trade NS .45 Colt 5½" good, 50 reloads, Meepos reloading tool, $60.00 for OMHB, same condition. Homer Hayes, Hermiston, Oregon.

B&L DRAWTUBE, CASE, EXCELLENT, $40.00, Wanted American Rifleman 1935, 1936 and previous to 1931, BSA, Pacific Ballard, Sharps Borchardt actions. K. M. Foster, Good Hope, Ohio.

SEDGLEY SPORTER 30-06 SPRINGFIELD VERY good to excellent, $110.00, Krag sporter 30-40 very good to excellent, $60.00. Want target scope 8 or 10 power, 35mm. camera. C. B. Morton, 1205 Fla. Ave., Bristol, Tennessee.

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HAVE FINE MAUSER ACTIONS WILL SELL OR trade for large rifle primers, 30 caliber gas checks, Lyman rifle scopes, or 30 caliber sizer and lubricator. Joe Fingal, R.D. #1, Champlain Ave., Boxwood, Wilmington, Delaware.

COLT .38 O.M.T. FIRED 40 ROUNDS EXCELlent plus, for binoculars, have 50, 303 British q.d. loads $4.00, 180, 30-30 primed cases, $7.00. Want 25-21-86 Stevens rifle. E. Griffin, Deerland, N. Y.

FAIR M1903 SPRINGFIELD #421935 AND GOOD plus Hi-Standard model C for left handed bolt rifle or? W. Sonnier, 2301 Waterworks, Toledo, Ohio.

SPRINGFIELD 30-06 BISHOP STOCK, GOOD IN and out, Pacific dies for Hornet and 30-06, ammunition for 505 Gibbs, some .375 bullets, want binoculars, rifle actions or other trades.. Frank Foster, Box 983, Clovis, New Mex.

43 RIMLESS 30-30'S, 87 RIMMED 30-30'S, 100 Hornets, all loaded, want smokeless powder NMNC 2R cases. B. G. Humphrey, Brookfield, Conn.

SMALL RIFLE PRIMERS FOR LARGE 33 WINchester bullets for others, 16 automatic for 12 or 10, or other gun Standard computing markets scales for shooting equipment Henke, 559 Evergreen, Ventura, Calif.

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LITSCHERT EAGLE 4X SCOPE, LEE DOT reticule for Winchester 70, .257. Claude G. Kaelin, Buhl, Idaho.

NATIONAL MATCH 45 AUTOMATIC, EXCELlent condition, 100 Peters Police Match cartridges, want kodak Retina II or similar camera with coupled range finder, excellent condition, will pay difference if any. Fred Newcomer, 32 Lincoln Avenue, Waynesboro, Pennsylvania.

SAVAGE MODEL 19 N.R.A. 22 LONG RIFLE with Stith streamlined mount (for Weaver 440) perfect, Colt Official Police .38 with 4" barrel, perfect, Mini Photoscope excellent, Want perfect Leica Summar, 50mm. focus, f:2 lens in latest type mount. R. W. Shoemaker, RR-8, Anderson, Indiana. Member.

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NEW MARLIN O&UNDER 16, F&M, 50 SHELLS, 22 W.R.F. Winchester 90 good, Winchester 10 ga. lever, excellent out, fair in, 30-40 handloads, Want Woodsman Hi-Standard, Masterpiece, Enfield, Krag, or Springfield, model 95, 6.30 or better binoculars, 10 ga. heavy loads, 12 ga. Magnum shells, or will buy. E. L. Rogers, Harvard St., Wenatchee, Washington.

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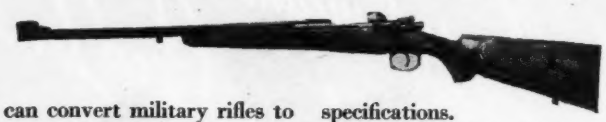

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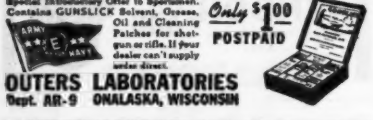

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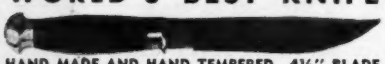

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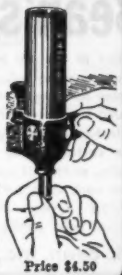

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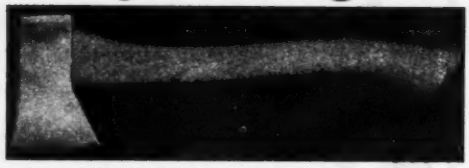

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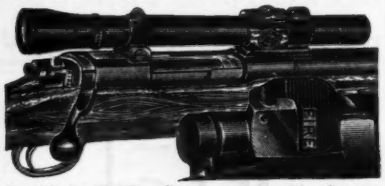

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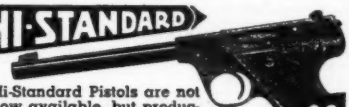

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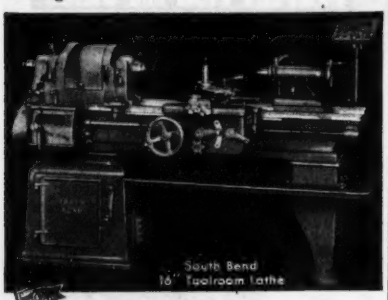

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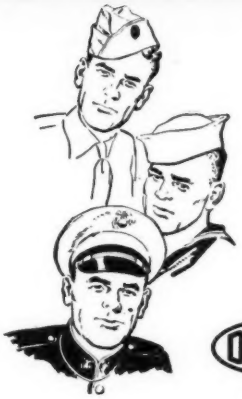

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